90 TH YEAR

Midwest Engineer

William R. Marston, left, 1958-59 President, and Dr. John T. Rettaliata, 1959-60 President of the Western Society of Engineers, at the Annual Dinner Meeting, May 26, 1959.

WESTERN SOCIETY OF ENGINEERS FOUNDED 1869

DIRECTORY ISSUE, 1959-60

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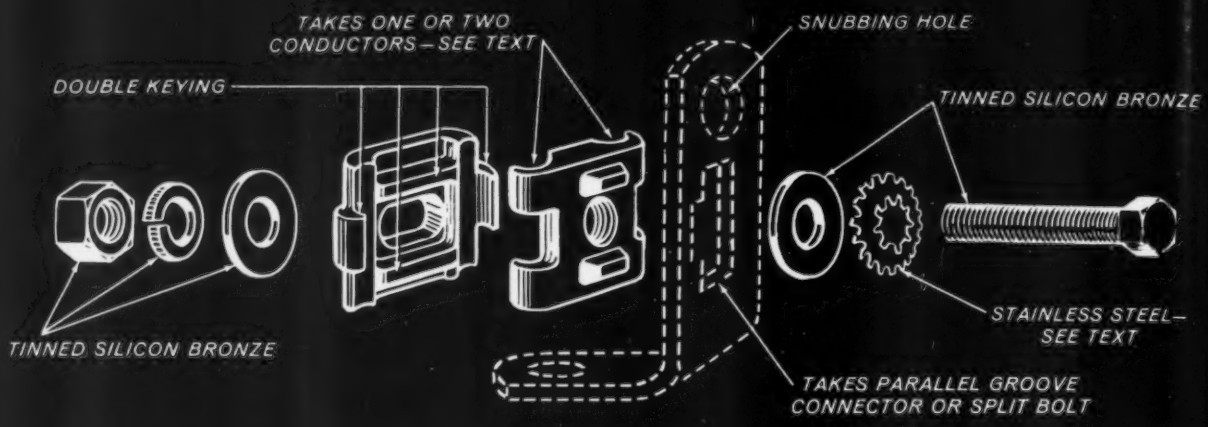

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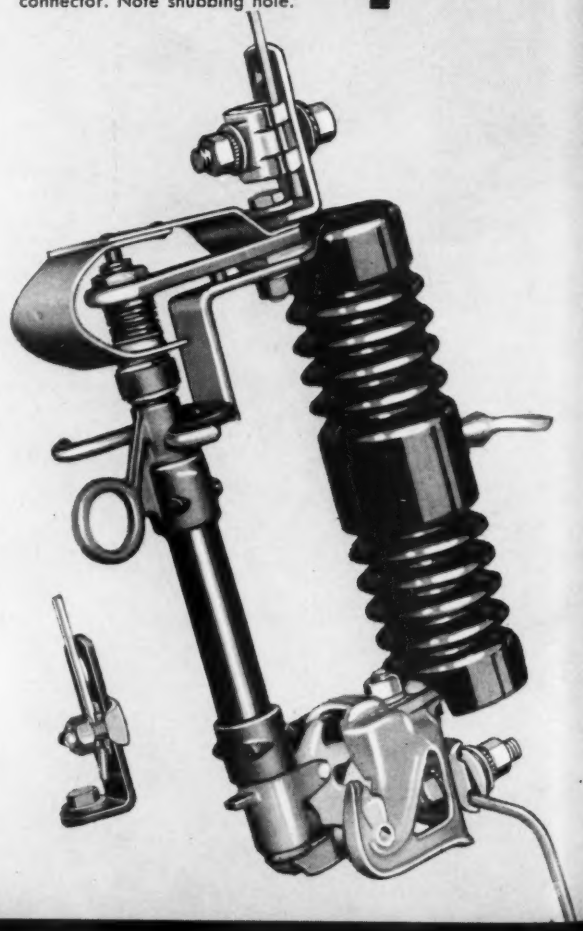
Type XS Open Cutout—7.5 kv, 100 amperes continuous, 12,000 amperes interrupting—shown with parallel groove connectors. Insert (below) shows optional split-bolt connector. Note snubbing hole.



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WESTERN SOCIETY OF ENGINEERS

Serving the Engineering Profession

August, 1959 — Vol. 12, No. 1

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Interesting Facts and Features of WSE's 90th Year of Service

and something of the

PLANS FOR THE FUTURE

(See pages 26 and 27)

All members and friends of the Western Society of Engineers should find much of interest in this 90th Anniversary Directory Issue of Midwest Engineer. The roster of the entire membership with the business association and title of each member gives a clear picture of the standing and importance of the W. S. E. Then the listing of all Sections and Committees and the program work for the year presents the far flung activities in all fields of engineering.

In previous years, the Directory Issue had been published in March or April. However, by that time, the work of the committees was well under way and the fiscal program year was almost completed. It was therefore decided to move the 1959 Directory along to August and cover in retrospect all of the activities of the 1958-59 year and with a forward look and complete calendar of all activities for the coming 1959-60 program year.

So here for your information is presented some of the interesting facts about what did happen and something of the plans for the future.

In approved "flash-back" style this review of WSE activities will begin with the Annual Dinner on May 26, 1959 and then cover the program year from September 1958.

Mr. Marston Remarks

President William R. Marston in remarks as retiring president outlined how 90 years ago a group of engineers met in the office of Col. Rosswell B. Mason, engineer and at one time Mayor of Chicago, and formed an organization of engineers dedicated to promoting the service of engineering and the welfare of engineers in the Midwest. This beginning resulted in the Western Society of Engineers with more than 2500 members, WSE's excellent quarters, and with a heritage of high engineering principles and the highest of standings in our community.

"Each new group of Trustees and Officers has been fully aware of these traditions and has assumed its full share of responsibility. This is gratifying and undoubtedly is the principal reason for the success of WSE. Officers and Trustees who have served their elected time still continue to accept important assignments. My special thanks and the gratitude of all our members goes to those senior members who handled some really important jobs for their society. I wish to particularly recognize the services of Mr. Sedwick and Mr. McClurg.

"This past year has been an outstanding one for our society. Building on the progress already made, our committees and members have planned and executed one of the best programs in our history. Particular recognition is given to the Program Committee, and Civic Committee, and the Luncheon Committee. Mention is also made of the fine work of the Membership and Advertising committees. The work of the other groups and committees deserves praise also. All produced a fine record.

"This season has seen the largest Luncheon meeting attendances in history. The outstanding programs and skillful organization by Mr. Sayner and his committee were directly responsible. The general programs and special events were excellent. I wish to take this opportunity of thanking Mrs. Virgil Gunlock for her help in the special events committee and Mr. Robert Bacon for his fine travelogue at the "Around the World" social night. The civic committee made excellent progress this year and an oustanding coming season is promised.

"Plans have been made for changes in administration and in our quarters. We will redecorate and reconstruct this summer and open again in September with a clean fresh look.

"My sincere thanks to all those who have made this such a memorable year."

Dr. Rettaliata Addresses

The new President of the Western Society of Engineers, Dr. John T. Rettaliata, President of Illinois Institute of Technology, addressed the meeting as follows:

"Engineers, individually and collectively, can take justifiable pride in the accomplishments of the Western Society of Engineers that have accrued in the 90 years of its existence. The contributions of the Society have been of great value to the welfare and growth of engineering. The engineering profession, and indeed the whole nation, will be strengthened to an even greater extent by contributions in the future.

"The Society will be called upon to meet and discharge new and greater responsibilities. The needs of our expanding economy and growing population will require all the technological talent we can muster in the years ahead.

"Today the WSE is surrounded by a complex economic environment; one that is constantly changing. Therefore, it is most important that we make a con-

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certed effort to strengthen our Society's position and broaden its sphere of operation.

"In attaining some of the Society's goals, we must also consider means and methods of operating on a sound fiscal basis. It is a task of vital importance.

"Most assuredly, the membership, which stands at 2,000 in the Chicago area, should be enlarged. There is an apparent need for additional advertising revenue and for establishing our services on a self-supporting basis.

"There are many facets to be studied in achieving a satisfactory income level, and you can be certain that the Board considers operation with a balanced budget a matter of primary importance.

"While it is important to strengthen WSE, we should not shut ourselves out from participation in solving many of the problems facing engineering. It is here that you, and WSE, can play a leading role. The Society can help bring engineering to the attention of American youth . . . it can help create interest in the profession . . . and help motivate the entire engineering education field.

"The engineer of today is not an isolated character. He has achieved a high status in civilization; more and more he is circulating in management areas. He is called upon to perform many tasks outside engineering itself.

Need to Improve Image, Status

"There is an urgent need, however, to improve the image of the engineer and the status of the engineering profession. Sputniks and the arrival of the eye-on-the-sky era glorified the scientist in the public's mind, at the expense of the engineer. So, there is a great deal of image-building still to be accomplished.

"Since the turn of the twentieth century the professions of medicine and law made great strides in raising their status. A survey of the medical education field in 1908-10 by Abraham Flexner was a noteworthy venture, for it pinpointed the need for higher standards in the medical profession. Implementation of the Flexner report enhanced the profession to a significant degree.

"Through the years a sense of unity has pervaded the forces of advancement in law and medicine. Both the American Medical Association and the American Bar Association have added to this unity and are continually working to intensify the soundness and reliability of their professions.

"In a similar manner the status of the engineering profession needs to be improved. If engineers are to extend their spheres of influence, they must be trained to know more than scientific answers and technological skills.

"On the other hand, the engineering profession does not have the problem of building integrity. In the entire history of the profession there have been but few defections on the part of its members.

More Formal Education

"The new advances in technology require that engineers be given more formal education. Undergraduate degrees can no longer be badges of admission to the engineering world. As a result, master and doctorate degrees are becoming almost a pre-requisite.

"It is my belief that it will not be too long before a graduate degree will be the minimum requirement in engineering, as is the case in the sciences such as chemistry and physics.

"The task of making the engineer more attuned to the complexities of the industrial, business, and research worlds hinges primarily upon the engineering colleges.

"Those of us in the engineering educational area know that young engineers must be exposed to economics, history, psychology, political science, literature and law. They must be made aware of the factors of productivity, labor and marketing, and made conscious of consumers, advertisers and suppliers. At the same time they must be thoroughly grounded in the basic principles of their chosen engineering field.

"There should be a sustained effort to encourage high school students with abilities for engineering to continue their studies at the college level.

"The WSE can help discover and counsel students on the advantages of higher education. Scholarships, loan funds, and part-time employment are doing much, and can do more, to better the situation. Certainly, we cannot afford to continue to lose the wealth of scientific and engineering talent of the youth of today.

"The important goal, at all levels, must be to educate properly in both quality and quantity. Primarily, this nation must look to scientists and engineers to achieve its development and to satisfy the public demand for a higher standard of living.

"Much improvement in engineering curricula and in establishing a balanced education program has been accomplished through the efforts of organizations such as the American Society for Engineering Education. There remains, however, much to be done. For example, the President's Science Advisory Committee, strongly recommends further revision of curricula and greater expenditures to improve higher education standards for the entire nation.

"At present, we are spending $18 billion—about four per cent of the Gross National Product—for education; the Advisory Committee urges that this figure be doubled as soon as practicable.

Progress is Contingent

"Continued progress will be contingent primarily upon an adequate supply of qualified scientists and engineers. Currently, there is a shortage of these people in terms of our present level of economy. Considering the requirements of the predicted national economy over the coming decades, it seems logical to conclude that the technical and scientific manpower situation will be of continuing importance. This would refute any belief that present demands are temporary in nature.

"While large numbers of engineers and scientists will be required, in particular, the creative man will make the greatest contribution toward reaching our objectives. Effective use of the creative individual necessitates an understanding and tolerant attitude, one which recognizes that ideas can be more important than facts; and imagination, even intuition, more important than logic.

"The creative man is not bound by preconceived ideas. Consequently, some of the results of his work may appear too radical for acceptance. However, these results should be examined carefully and objectively for history reveals that yesterday's heresy frequently becomes tomorrow's orthodoxy. More than ever before creativeness will be called upon to extend the boundaries of ability, to solve the unsolvable and to achieve the unattainable.

"As always, the magnitude of our advancing stride will be dependent upon the human dimension, not the mechani-

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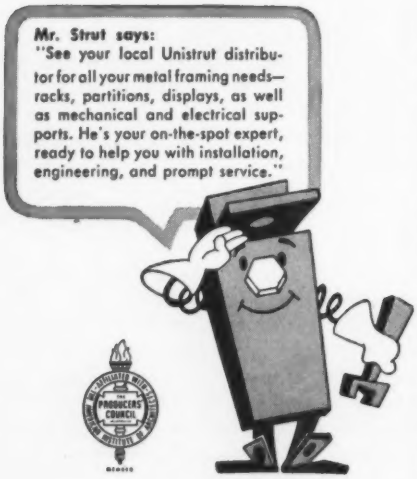

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cal. The various electronic aids and devices at our disposal, remarkable as they are, cannot think. They must be told what to do. Therefore, the effectiveness of robotism is intimately related to the competence of the conceivers and operators.

"Since the creative individual is a vital link to a dynamic society, he should be cultivated, encouraged and permitted to work in a climate compatible with intellectual prolificness. He should be given the incentive to excel.

"If we are to meet the challenge of the future, we must make effective use of the gifted individual. We need to encourage those who have the ability for advance thinking and creative efforts.

"These are just some of the problems of concern to the engineering profession and WSE.

"The Society," Dr. Rettaliata said in closing his remarks, "should be interested in these problems, and with our resources and energies, and with the help of our membership, I am certain we can be an effective participant in their solution."

Mr. Coleman Coordinates

Phillip L. Coleman, a member of the Board and now 2nd vice president, was designated to coordinate the activities to mark this 90th Anniversary of the Society. He states that "the programs throughout 1959 were set up in part around the theme of 90. Paraphrasing a currently popular title, the first feature of the 90th Anniversary celebration was "Around the World in 90 Days," when in January our own Bob Bacon provided the entertainment for our annual Ladies Night dinner with his splendid pictures and interesting patter on the four months trip which he and Mrs. Bacon made. Their travel was virtually all by air, and the sequence was California, Hawaii, Japan, Alaska, over the North Pole, Scandinavia, Russia, Greece, Italy, Belgium, and then back to the good old USA.

"Bob had cut his two miles of film down to a splendid package of 2000 feet to show us the high spots of his trip. Russia was given rather thorough treatment from the Baltic to the Black Sea, and Bob's comments about life and conditions in the Soviet countries were enlightening and thought provoking for all of us—90 years or younger. This program was arranged under the direction of LeRoy H. Cather, Special Events Chairman.

"As part of our observance of this milestone in our history, at each monthly evening meeting we have cited some man of prominence for his achievements in the engineering profession and in industry. Albert F. Reichman accepted our invitation to the February dinner meeting. He is a past president and honorary member of WSE, a retired official of the American Bridge Division of U. S. Steel, and at his age past 90 continues to have a keen interest in engineers, engineering, and the WSE which always has been close to his heart and of which he has been a member 62 years. What could have been more appropriate than to honor him with our first WSE 90th Birthday citation.

"Wilford W. DeBerard, for 49 years a member of WSE and known across

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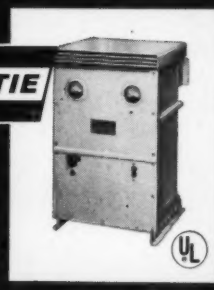

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the country for his early work in engineering publications and a pioneer in filtration plants for water supply, was cited at our March evening dinner meeting. As Deputy Commissioner for Water and Chief Water Engineer, City of Chicago, he has done much in the field of public works and has been devoted to the engineering profession.

"At our regular April dinner meeting we were pleased to have Fred M. Gillies, Chairman of Acme Steel Company, as our guest to receive the WSE citation. As industrialist, athlete, businessman, and civic leader, he well represents one of Chicago's great manufacturing industries and the spirit which makes for progress.

"There will be citations of other leaders in engineering and allied lines in connection with our programs for the 1959 fall season. Then on November 20, we plan to have a 90th Anniversary Ladies Night Dinner. Watch for announcements of these coming events."

Scott Reviews Programs

The following report by Frank M. Scott, chairman of the Program Committee, presents a very fine outline of the tremendous scope of the engineering interests in WSE. We quote from his report:

"Our 1958-1959 general monthly meetings were held as usual on the fourth Tuesday of each month. Each meeting featured an outstanding general-interest speaker and a combination of three to four simultaneous technical sessions. Each section went all out to present timely subjects with nationally known speakers. The attendance averaged 200, ranging from 250 to a minimum of 150 members and guests.

"Some of the highlights of the general after-dinner speakers were: James D. Green, Vice President of Northern Trust Company, talking on a 'Development Plan for the Central Area of Chicago'; Walter Malloy, Director of Public Utilities, City of St. Louis, who presented a talk originally scheduled for the Mayor of St. Louis on 'The Engineers' Responsibility in Community Affairs'; and James S. Kearns, Director, Publicity and Information, Pan American Games, Inc., talking on 'The Pan American Games in Chicago.'

"The ten technical sections of WSE were organized so each had two sessions or meetings for the year. Each program presented was carefully selected, and as mentioned, included a speaker or speakers who were known authorities in their field. Here is the complete program for the technical sessions of the 1958-59 year:

Oct. 28, '58

"Design and Construction of Drilled Caissons," by Wayne C. Teng, Chief Structural Engineer, John F. Meissner Engineers, Inc. Sponsored by Bridge & Structural Engineering Section, Chairman, Albert H. Swift.

"Meetings, Missiles and Muscles," by Hubert J. Schiafly, Vice President, Tele-Prompter Corporation. Sponsored by Communication Engineering Section, Wilfred C. Howe, Chairman.

"New Horizons for Metropolitan Chicago," by Virgil E. Gunlock, Chairman of the Board, Chicago Transit Authority. Sponsored by Transportation Engineering Section, A. M. Westenhoff, Chairman.

Nov. 25, '58

"Electric Heating is Here!" by G. G. Freyder, Electric Heating Specialist, Commonwealth Edison Company and John McLaughlin, Vice President, Kelso-Burnett Electric Company. Sponsored by Electrical Engineering Section, Harold R. Heckendorn, Chairman.

"Getting the Dog Past the Jam," by William C. Bremner, Superintendent of Safety, Commonwealth Edison Company. Sponsored by Fire Protection and Safety Engineering Section, David A. Dinsdale, Chairman.

"Flood Control in Chicagoland," by William J. Bauer, Senior Project Engineer, John F. Meissner Engineers. Sponsored by Hydraulic Sanitary and Municipal Engineering Section, Leo F. Rehm, Chairman.

"The Role of the Mechanical Engineer," by L. W. Fromm, Head, Water Reactors Section, Reactor Engineering Division, Argonne National Laboratory. Sponsored by Mechanical Engineering Section, Sidney Mayster, Chairman.

Jan. 27, '59

"Russian Steel—Ahead or Behind?" by Michael O. Holowaty, Ph.D., Chief Engineer, Inland Steel Company, Ralph Vaill, Steel Mill Consultant, A. J. Boynton & Co., and Michael F. Yarotsky, Division Superintendent (Retired), United States Steel Corporation. Sponsored by Chemical and Metallurgical Engineering Section, Franklyn J. Lammers, Chairman.

"The Gas Problems of Europe," by Karl B. Nagler, Senior Vice President, Peoples Gas Light & Coke Company. Sponsored by Gas, Fuels & Combustion Engineering Section, Patrick B. Henry, Chairman.

"The Economic Impact of the Lake Calumet Harbor on the Calumet Region," by Maxim M. Cohen, General Manager, Chicago Port District. Sponsored by Traffic Engineering and City Planning Section, Laurence A. Dondanville, Chairman.

Feb. 24, '59

"Application of Digital Computers in Engineering," by Norman H. Tarnoff, Applied Science Representative, International Business Machines Corporation. Sponsored by Electrical Engineering Section, Harold R. Heckendorn, Chairman.

"Don't Gamble with Fire," by Dan J. Iverson, Research Director, Building Industries Laboratory. Sponsored by Fire Protection and Safety Engineering Section, David A. Dinsdale, Chairman.

"Chicago's New Lake Front Exposition Center," by William Fay, Director of Public Relations, Metropolitan Fair & Exposition Authority and Robert Cantrell, Project Manager, Shaw, Metz & Dolio, Architects. Sponsored by Hydraulic Sanitary & Municipal Engineering Section, Leo F. Rehm, Chairman.

"An Engineer's Comments on—Are we Meeting Competition in Engineering Education," by Raymond D. Maxson, Consultant, Sargent & Lundy. Sponsored by Mechanical Engineering Section, Sidney Mayster, Chairman.

March 24, '59

"Houghton Hancock Vertical Lift Bridge," by A. L. R. Sanders, (MWSE) Partner, Hazlet & Erdal. Sponsored by Bridge & Structural Engineering Section, Albert H. Swift, Chairman.

"Satellites—How We Track and Communicate With Them," by W. B. Doe, Remote Control Engineer and Amateur Satellite Tracker, Argonne National Laboratory. Sponsored by Communica-

The Western Society of Engineers, during its 90th Anniversary, honored three members of the profession

ALBERT F. REICHMANN

A special tribute to WSE's oldest living Past President. Albert F. Reichmann holds a special place of honor in the Western Society. His long and distinguished association with the Society began when he became a Member in 1897 and has included the offices of Treasurer (1906-13) and President (1913-14). Mr. Reichmann became a Life Member of the Society in 1939 and, in 1945, was elected to Honorary Membership, that grade reserved for engineers of acknowledged eminence who have rendered outstanding service to the engineering profession. In his 91st year, Mr. Reichmann was publicly honored by Western Society at its February General Monthly Dinner Meeting in conjunction with and as a part of its 90th Anniversary year.

W. W. DeBERARD

Deputy Commissioner for Water and Chief Water Engineer, City of Chicago. W. W. DeBerard, a WSE Member for over 49 years, (now a Life Member), has been known to the profession across the nation for over half a century. He has earned the respect and devotion of the engineering profession, his colleagues, and his fellow citizens.

FRED M. GILLIES

Chairman of the Board, Acme Steel Company. Industrialist—athlete—businessman—civic leader. All these describe one man—Fred Gillies. He more than earns the honor the Western Society has given.

tions Engineering Section, Wilfred C. Howe, Chairman.

"Navigation Developments in the Chicago Area," by John B. W. Corey, Jr. (Colonel), District Engineer, U. S. Army Engineer District, Chicago. Sponsored by Transportation Engineering Section, A. M. Westenhoff, Chairman.

April 28, '59

"Material Problems of the Space Age," by Dr. Johan Bjorksten, President, Bjorksten Research Laboratories. Sponsored by Chemical & Metallurgical Engineering Section, Franklyn J. Lammers, Chairman.

"Thermoelectric Materials and Devices," by Robert Herr, Manager of Research & Development. Electrical Products Laboratory, Minnesota Mining & Manufacturing Co. Sponsored by Gas, Fuels & Combustion Engineering Section, Patrick B. Henry, Chairman.

"Urban Renewal in the Hyde Park-Kenwood Community," by Julian H. Levi, Executive Director, South East Chicago Commission. Sponsored by Traffic Engineering & City Planning Section, Laurence A. Dondanville, Chairman.

Outstanding Luncheon Programs

More than 3000 WSE members and their guests attended the 37 luncheon programs held during the year. In order to give you a comprehensive understanding of the scope of the subjects covered at these luncheons, we are presenting the report by William V. Sayner, Chairman of the Luncheon Program Committee as follows:

"Engineers, having re-made the world as we once knew it, are now teamed up with scientists to master space. But they are a modest breed. Individually their achievements may at times attract wide publicity and acclaim. Collectively they are seldom, if ever, heard. This is in sharp contrast with the other professions whose Associations provide an authoritative voice and a forum.

"The wide diversification of engineering fields and the great numbers of engineers of many gradations of skills and responsibilities may preclude ever encompassing them all in one authoritative embracing association. But nevertheless there is a void in the public's understanding and appreciation of engineering as a profession and in the engineers' responsibilities to society which somehow should be better filled. The Western Society of Engineers as the oldest general engineering association in the Chicago Area and the only one having a suitable base of operations in its quarters has a unique opportunity in Chicago to provide a forum and on occasion to speak in a role of leadership.

"The Wednesday noon luncheons are on the way toward becoming an important element in this direction. They complement the program of evening meetings which have a rich tradition of great technical discussions and fellowship. Unlike the evening meetings which entail several hours time, usually the whole evening, the luncheons take only a few minutes (if any) more than the average business lunch hour. While bringing a friend to an evening meeting is a major matter involving disruption of the friend's entire evening at home and concern about late home-bound trains, the luncheon is an extra enjoyed at little cost of time, money, or convenience. A whole new field of prospective attendants is opened up.

"These possibilities of the WSE Wednesday noon luncheons were increasingly developed during the 1958-59 year. Speakers were drawn from many fields and they spoke on many subjects. Several of the meetings were covered by the newspapers.

A member of the Blue Ribbon Coroner's Jury investigating the Our Lady of Angels' tragic school fire, Dale K. Auck, addressed the January 7th luncheon. Among the community leaders present on that occasion were: Benjamin Willis, Chicago Superintendent of Schools; Msgr. William McManus, Superintendent of Catholic Schools; J. N. Stanbery, Vice President of Illinois Bell Telephone Company; Morton E. Luber, President Society of Fire Protection Engineers; Talcott Griswold, Vice President Marsh and McLennan; Elmer F. Reske, Manager Cook County Inspection Bureau. The attendance was 120.

When George Jackson talked on December 3rd about the Illinois Toll Road, he was introduced by George L. DeMent, Commissioner of Public Works City of Chicago. Among the guests were Dick Van Gorp, Chief Engineer, Department of Public Works, City of Chicago; and Jack Snyder, personal representative of Henry Crown. The attendance was 92.

The January 14th program on the Mackinac Bridge diary by George Sprat brought out such leaders as Hjalmar Johnson, Vice President of Inland Steel Company; Fred L. Goldsby and S. H. Hamilton, Vice Presidents of Chicago Bridge and Iron Company; T. W. Spilman, District Engineer Bethlehem Steel Company; A. P. Boysen, District Engineer, U.S. Steel Co. The attendance was 141.

The January 28th program on the Corps of Engineers Snow, Ice and Permafrost research activities in the Arctic by scientist W. K. Boyd became a great gathering of army engineers. Among those present were Colonel John T. O'Neill of Fifth U.S. Army; Col. J. B. W. Corey, Jr., District Engineer; Col. J. A. Abercrombie, Chief of the C. of E. Procurement Office; Colonel Walter K. Parsons, Chief of the Snow, Ice, Permafrost Research Headquarters; Edw. W. Nelson, Chief of the Engineering Division of the North Central Division of the Corps of Engineers. The attendance was 101.

A Society Editor Visits

A CHICAGO DAILY NEWS Society Editor, Helen Fleming, came to the February 18th meeting addressed by J. N. Stanbery, Vice President of Illinois Bell Telephone Company. His topic was "Qualities and Actions of Engineers that Affect Their Progress Professionally." Among others attending were: Dean Harold Gotaas of N.W. University Technological Institute; Dean Ralph G. Owens, of Illinois Institute of Technology; K. B. Nagler, Operations Vice President, Peoples Gas Company; Rev. Ralph A. Gallagher of Loyola University; Allan S. Peark of the Ohio State Alumni Assn., Carl E. Parker, Manager of Industrial Relations, Commonwealth Edison; O. G. Smith, Chief Eng. of Ill. Bell Tel. Co. The attendance was 199.

Large Audience of Military Engineers

Major General A. M. Minton, Director of Civil Engineering, Dept. of the Air Force, Pentagon, drew another large military engineer audience on April 8th with his talk on "The Military Engineer in the Space Age." General Minton remarked that he expected all ambitious engineers of his command to belong to

engineering societies and to participate in their activities. Besides the Chicago area Colonels who came to the Snow, Ice and Permafrost meeting there were: Colonel Lancaster, Commander of Bong Air Force Base in Wisconsin; Lt. Col. Andrews of SAC Headquarters at Omaha; Colonel A. Eckhardt, Director of Air Force Engineering Center, Dayton, Ohio; E. H. Winkelman, Defense Coordinator, Ill. Bel. Tel. Co.; Dr. H. V. Hawkins, Asst. Director of Cook Research Laboratories; and last, but not least, a reporter from the CHICAGO TRIBUNE. A half column story the next morning covered the talk. The attendance was 142.

The speaker on April 15th was Harold Cheadle, Senior Economist of the Chicago Federal Reserve Bank. Speaking on the subject of prudent investment, he also touched on the menace of inflation. The TRIBUNE reported his talk with a story over half a column long. The attendance was 88.

John Duba, the Deputy Mayor of Chicago, talked on March 25th about the public works program. Among those present were: Paul Oppermann, Executive Director, Northeastern Illinois Metropolitan Planning Commission; Virgil Gunlock, Chairman of CTA. The attendance was 133.

Another "military" program on May 13th brought Colonel Edmund H. Lang all the way from Vicksburg, Miss., to tell about the great C. of E. Waterways Experiment Station. Major General Louis J. Rumaggi, C. of E. Division Engineer, introduced him. D. L. Weart, retired C. of E. Major General, was among those present. The project engineer of the St. Lawrence Seaway project, A. F. Griffin, now Special Engineering Consultant of the N-C Division, was at the speaker's table as well as John Borrowman, Chief of Operations in the Division. Alfred L. Parme, Manager of the Structural and Railway Bureau of Portland Cement Assn. was also among the distinguished guests. (Mr. Parme gave a talk on the Exposition Hall of Paris on March 11th.) The attendance was 132.

The Big Program

The final program of the 1958-59 year addressed by A. J. Esrey, General Manager of Amer. Tel. & Tel. Co. in Kansas City, is covered in a separate article on page 15 in this issue. It brought a galaxy of communications leaders including: Wm. F. Boyd, Acting President, Kellogg Switchboard and Supply Co.; Robert M. Wopat, President General Telephone Laboratories; Colonel Donald M. Wright, Chief of the Chicago Air Procurement Office; Colonel A. J. Mandelbaum, Signal Officer, Fifth U.S. Army; H. D. Fargo, President of Telephony Publ. Co., and R. C. Reno, Editor of Telephony Publ. Co., and R. C. Reno, Editor of TELEPHONY Magazine; Colonel Carl A. Cuphaver, Com. Officer, Midwest Regional Officer U.S. Army Signal Supply Agency; D. R. Carmichael, V. Pres., Teletypewriter Corp.; and numerous leaders of Ill. Bell Tel. Co., A.T.&T.Co. and Western Electric. The attendance was over 400.

The experience of the 1958-59 season showed that large audiences could be brought out. As the attendance increased, it became easier to get speakers, and the occasions became more rewarding for both the speakers and the listeners. More leaders became acquainted with the functions of the Society and its role as a meeting place for all engineers. In the words of Major General Louis J. Rumaggi, Division Engineer, N-C Division of the U.S. Army Corps of Engineers "By Serving as a meeting place for the engineering profession, the Western Society of Engineers renders a splendid service to our associates in the Chicago Area."

Luncheon Programs For 1958-59

Sept. 3, Charles S. Leonard, President, Chicago, North Shore and Milwaukee Railroad, "Facts about the North Shore's Decision to Quit."

Sept. 10, Edward Dalton, of Merrill, Lynch, Pierce, Fenner, Smith, "How to Invest."

Sept. 17, P. J. Hoff, WBBM-TV Weather Man, "Engineering a TV Weather Forecast."

Sept. 24, Ray Geraci, Promotion Director, Chicago Cardinals, "Cardinals' Football Prospects."

Oct. 1, William R. Marston, President, WSE, "My Impressions of Moscow."

Oct. 8, J. Burnham Maylard, Architect, "Air-Conditioning the Opera House."

Oct. 15, H. C. Jones, Supt., Automatic Electric Co., "Growth of Ind. Telephone Industry."

Oct. 22, Philip E. Balcomb, District Manager, American-Marietta Co., "What's New in Prestressed Concrete."

Oct. 29, Edward J. Lee, General Manager, Metropolitan Fair and Exposition Authority, "The Exposition Hall."

Nov. 5, Ira J. Bach, Commissioner of City Planning, "The New Plan for Downtown Chicago."

Nov. 12, Lt. Col. Henry Luther, Chief, Military Advisory Group, Chicago Quartermaster Research Institute, "Better Food from Chicago Research."

Nov. 19, A. Matyas, Chief of Bell System TV Center, Chicago, "Behind the Scenes in TV Network Operation."

Nov. 26, Fred B. Farrell, Assistant Regional Engineer, Bureau of Public Roads, "National Highway System."

Dec. 3, George L. Jackson, Chief Engineer, Illinois Toll Highway Commission, "Problems We Met in Building the Toll Road."

Dec. 10, W. H. Carey, Jr., Chief Engineer, AASHO Road Tests, Ottawa, Ill., "First Scientific Tests of Road Design and Capability."

Dec. 17, H. E. Bauman, Sound Engineer, Illinois Bell Telephone Co., "Adventures in Sound."

Jan. 7, Dale K. Auck, Blue Ribbon Coroner's Juror, "How Safe Are Our Schools?"

Jan. 14, Geo. W. Serat, Project Engineer, U.S. Steel Co., "Mackinac Bridge Diary."

Jan. 21, Richard C. Elstner, Development Engineer, Portland Cement Association, "CPA's New Structures Laboratory."

Jan. 28, W. K. Boyd, Chief, Frozen Ground Research, Corps of Engineers, "Latest Snow, Ice and Permafrost Research in Greenland."

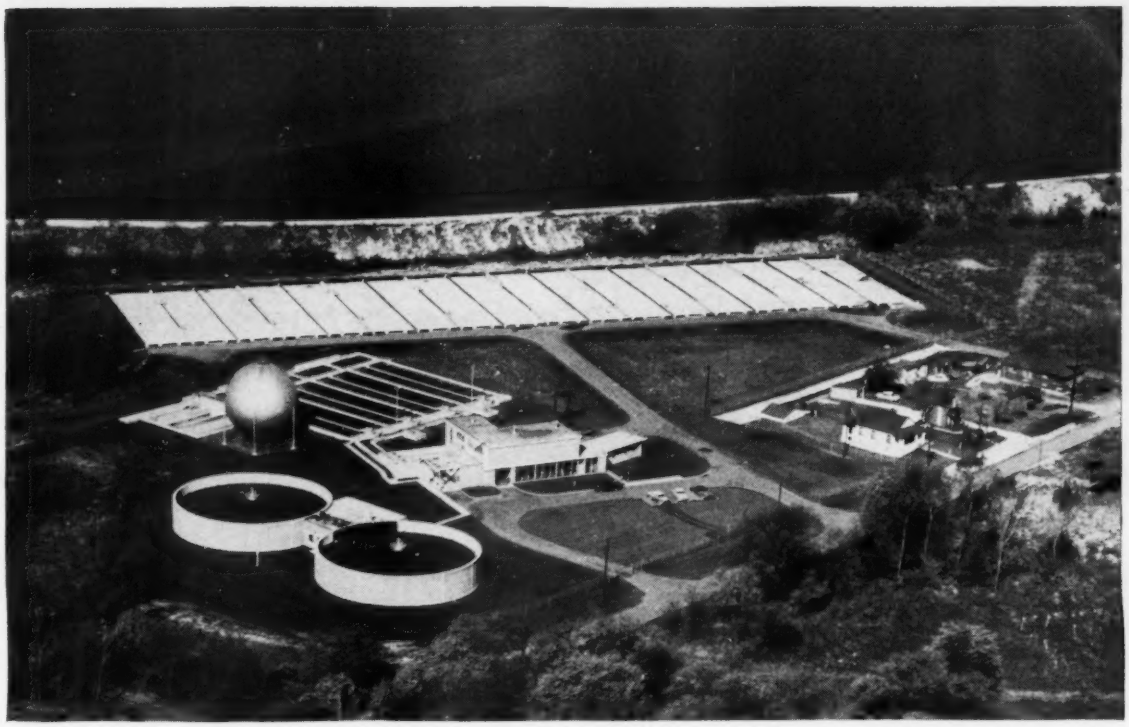
Feb. 4, Dr. H. V. Hawkins, Director of Aerodynamic Research, Cook Research Laboratories, "Flight to Mars."

Feb. 11, W. H. Smith, Engineer, Cast Iron Pipe Research Association, "Pure Water and Public Health."

Feb. 18, J. N. Stanbery, Vice President, Illinois Bell Telephone Co., "Qualities of Engineers That Affect Their Progress."

Feb. 25, R. C. Whiting, Regional Manager, Bendix Computer, "Increasing Eng. Productivity by Digital Computer."

March 4, David Rossin, Engineer,



Joliet's new sewage treatment plant will help to restore the cleanliness and utility of the Des Plaines River and to serve as an example to the cities and industries who are still contributing to the river's pollution. Consoer, Townsend and Associates, Consulting Engineers, Chicago.

New plant at Joliet, Illinois employs P.F.T. "Controlled Digestion"

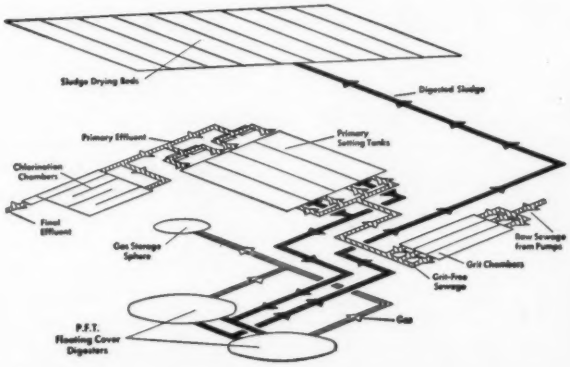
Designed to accommodate a population increase of more than ⅓, the sewage treatment plant at Joliet will be "new" for years to come. This progressive city is located on the Illinois Deep Waterway and has a present population of some 60,000.

The P.F.T. "Controlled Digestion" system incorporated into this plant includes: two P.F.T. 85′ Floating Covers, two of P.F.T.'s #750 Sludge Gas Fired Heaters, two Floating Cover Position Indicators, Gas Safety Equipment and two P.F.T. #450 Shell and Tube Heat Exchangers.

Here is a flow diagram of this new plant. It is designed to effectively treat an average flow of 15 million gallons per day expected from the future population of 82,900.

No wonder Joliet is proud of this modern plant. Information on any of the P.F.T. equipment used in this installation will be sent upon request.

Flow Diagram of Joliet Plant.



waste treatment equipment exclusively since 1893

P.F.T.

PACIFIC FLUSH TANK CO.
4241 Ravenswood Avenue
Chicago 13, Illinois

PORT CHESTER, N. Y. • SAN MATEO, CALIF. • CHARLOTTE, N. C. • JACKSONVILLE • DENVER

Atomic Energy Commission, "Latest Appraisal of Nuclear Power."

March 11, A. L. Parme, Bureau Manager, Portland Cement Association, "Unusual Shell of Paris Exposition Hall."

March 18, O. C. Davis, General Superintendent, Natural Gas Pipeline Co. of America, "Herscher Underground Gas Reservoir."

March 25, John G. Duba, Deputy Mayor, City of Chicago, "Know Your Changing City."

April 1, Fred L. Goldsby, Vice President, Chicago Bridge & Tran. Co., "Dresden Sphere."

April 8, Maj. Gen. A. M. Minton, Headquarters, U.S. Air Force, Pentagon, Washington, D.C., "The Military Engineer In the Space Age."

April 15, Harold Cheadle, Senior Economist, Chicago Federal Reserve Bank, "Inflation and Your Investment Plans."

April 22, V. E. Gunlock, Chairman, Chicago Transit Authority, "New Horizons."

April 29, H. H. Kantner, Supervisor of Mathematics, Armour Research Foundation, "Chicago's Largest Computer Facility."

May 6, Hjalmar W. Johnson, Vice President, Inland Steel Co., "My Trip to Australia and New Zealand."

May 13, Col. Edmund H. Lang, Director, Corps of Engineers Waterways Experiment Station, Vicksburg, Miss., "Vicksburg Research in Hydraulics, Soils and Concrete."

May 20, Col. Jack Reilly, Executive Director, Pan American Games, "The Pan American Games."

May 27, A. J. Esrey, General Manager, Western Area, American Telephone and Telegraph Co., Kansas City, Mo., "Communications In Defense."

Young Engineers' Forum

During the 1958-59 year the Western Society sponsored the Ninth Young Engineers' Forum with the theme, "Engineering in Chicago Industry." This Forum was under the chairmanship of S. R. Price, Jr., Manager, Pump and Condenser Department, Ingersoll-Rand Corporation. Other members of the Committee were T. G. Ayers, R. N. Bergstrom, W. W. Pomerhm, and W. B. Salzman.

The program for the 1958-59 year:

November 17, "Construction," speakers, Ragnar and Raymond Benson, of Ragnar Benson, Inc.

November 24, "Electrical Industry," Carroll V. Roseberry, Vice President, Apparatus Division, Westinghouse Electric Corp.

December 1, "Manufacturing," J. A. Handley, President, Whiting Corp.

December 8, "Education and Administration," Dr. Frederick L. Hovde, President, Purdue University

December 15, "Steel," E. C. Logelin, Vice President, United States Steel Corp., Chicago

New Western Society Division On Education and Research

SCOPE

INTRODUCTION: The Division on Education and Research provides (a) an opportunity for exchange of information and ideas that do not come strictly within the purview of any other section or division; (b) a form at which papers may be presented on basic and applied research of general interest and applicability to engineering; and (c) a place for open discussion on problems relating to education of the undergraduate, the graduate, and the advanced engineer.

I. EDUCATION: The Division will consider new ideas concerning the education of the engineer, the curriculum, the length and content of courses, and ways and means of improving the standards of the professional engineer. Papers on the subject of education will be read and discussed.

II. RESEARCH: Papers will be presented that appeal to workers in basic research and in science as applied to engineering problems and to those engaged in research in all fields of investigation having an engineering affiliation. Among other specialties, new developments in engineering, technology, production control, quality control, engineering business planning, and engineering economics will be considered.

III. It is believed that the papers presented will have an appeal to educators, research and development engineers, and to supervising personnel and managers of organizations interested in the possibilities of new devices and methods.

IV. The Program Committee of this Division will strive to eliminate areas of overlapping of interests and to maintain cordial relations with other sections and divisions.

COMMITTEE OF THE DIVISION ON EDUCATION AND RESEARCH

R. A. Budenholzer ....Illinois Institute of Technology

Howard A. Carter...American Medical Association

William L. Everitt.....University of Illinois

Harold J. Holmquest.....Loyola University

E. H. Schultz.....Armour Research Foundation

L. T. Wyly ...Northwestern University

Clarence H. E. Zacher .....Purdue University

New Speaker and Paper Division

Once a week on Thursday, 12:15 P.M., the Speaker and Paper Group meets in one of the dining rooms of the Western Society of Engineers. The purpose of the Group is to provide an opportunity for (a) presentation of papers and addresses on current engineering or timely national problems; (b) round table discussion on current problems in engineering on national or local interest; and (c) new members to present papers on subjects in which they are interested.

Although this facility is opened to members and guests of the Western Society of Engineers, addresses and papers may be presented only by members of the Western Society of Engineers. To become a member of the Group merely come to a meeting and inform the Secretary or Chairman that you desire to be placed on the program according to the rules. There is no extra charge to join the Group and the cost is only the price of the luncheon.

Howard A. Carter, Chairman
George C. Harris, Secretary

Mr. A. J. Esrey, General Manager of the American Telephone & Telegraph Co., Western Area with headquarters in Kansas City, is shown here during his demonstration call to Honolulu. In lower right is Wm. V. Sayner, 1958-59 Luncheon Chairman.

Luncheon Meeting Is Transmitted Overseas

For the first time in the 90-year history of WSE an entire program of the Society was transmitted "live" to an overseas city, and part of the same program originated "live" in the same overseas city.

It occurred during the final Wednesday noon luncheon of the 1958-59 season on May 27th when A. J. Esrey spoke on the subject of "Communications in Defense." To demonstrate dramatically the modern communications system now at the service of military departments and the public, Mr. Esrey dialed a Honolulu number. Soon he was talking with William Kea, General Commercial Manager of the Hawaiian Telephone Company.

"A wisp of South Seas atmosphere drifted into the Loop," the Chicago AMERICAN reported the next day. "It lasted a refreshing few minutes. This wasn't long enough for over 400 engineers at the luncheon of the Western Society of Engineers as ukulele music and the voice of a Hawaiian girl were piped to the Society headquarters."

Colonel W. E. Lotz exchanged greetings with his Chicago counterpart, Colonel A. J. Mandelbaum, Signal Officer of the Fifth U.S. Army, at the head table with Mr. Esrey. A moment later Colonel John W. Dell, Deputy Chief of Staff for Electronics of the Pacific Air Force, talked with Colonel Donald M. Wright, Chief of the Chicago Air Procurement District.

It was the greatest WSE Noon Luncheon audience, or for that matter, the greatest WSE audience noon or evening, in the memory of members. Three dining rooms on the 5th, 6th and 7th floors were used. A special PA system and a closed-loop TV system provided by courtesy of the Illinois Bell Telephone Company and the General Electric Company, were communication "firsts."

The facilities between Chicago and Honolulu were provided by the American Telephone and Telegraph Company. The overseas connection went by way of radio relay circuit from Chicago to Sacramento and Pt. Arena, California, then by way of the new ocean cable to Hawaii. Actually two circuits were involved. One was used at the start of the program to transmit to Honolulu the entire proceedings, including the introductions of all the guests by luncheon Chairman, Wm. V. Sayner, and the introduction of the speaker by Mr. H. B. Stair, Vice President of the Illinois Bell Telephone Company. The other was used by Mr. Esrey to dial up the call to Mr. Kea for the greetings from Honolulu.

Excerpts from Mr. Esrey's talk as reported in the AMERICAN follow:

The ability of the United States to survive a sudden attack hinges on two factors. They are:

1. An air defense network to protect the population, industry, and communication facilities and military installations.
2. Retaliatory capability.

Both factors, he said, require accuracy and speed in communications. The communications industry is being called on to the limit.

The Hawaiian end of the conversation. Col. W. E. Lotz, Chief Signal Officer, United States Army Pacific, talks to Col. A. J. Mandelbaum, Chief Signal Officer of the 5th Army in Chicago. Others are, left, Jewel Wright; standing left, Col. J. W. Dell, and right, William C. Kea, General Commercial Manager, Hawaiian Telephone Company.

WSE BOARD OF DIRECTION FOR T

J. T. Rettaliata
President 1959-60

Dr. Rettaliata has been President of Illinois Institute of Technology since 1952. He received his B.E. degree in 1932 from Johns Hopkins University, and a Doctor of Engineering degree in 1936. He was then with the Allis-Chalmers Manufacturing Company as a department head and as Manager of the Research and Gas Turbine Development Division. In 1945 he joined Illinois Tech as Professor and Director of the Department of Mechanical Engineering.

Dr. Rettaliata is a Member, an Officer and active on committees of numerous professional, civic and business organizations, including: Fellow of the American Association for the Advancement of Science; Western Society and a Member of the Board since 1952; Chairman of the Board of Visitors of the Air University; Member of the Board of Crerar Library; and on the Board of Directors of 12 companies, including Western Electric, American Steel Foundries, the Atchison, Topeka and Santa Fe Railway, and International Harvester.

He is a nationally known educator, and an authority on gas and steam turbines and on jet propulsion.

William R. Marston
President 1958-59

The University of Illinois gave Mr. Marston a B.S. degree in Railway Electrical Engineering in 1931, and he subsequently became a Staff Engineer for the Chicago Surface Lines. He remained with that organization until 1942 when he was employed by the Office of Price Administration. In 1943 he was placed in charge of a transportation unit of the Mileage Rationing Branch of O.P.A.

Entering the Naval Reserve in 1943, Mr. Marston served in the Southwest Pacific.

In 1950 he associated himself with the City of Chicago as Deputy City Traffic Engineer.

Mr. Marston joined the Western Society of Engineers in 1936, served as a Trustee from 1951 to 1954, and continued through the offices to the presidency.

He is a Past President of Illinois Engineering Council; Past President, Midwest Section of the Institute of Traffic Engineers; and Director of the National Institute of Traffic Engineers.

R. D. Maxson
First Vice President 1959-60

Raymond D. Maxson was graduated from the University of Illinois in 1921, with a bachelor of science degree in Electrical Engineering.

Following graduation he was employed by Public Service Company of Northern Illinois as an engineering inspector at Crystal Lake. Working in various engineering and supervisory capacities, he progressed to division manager, of the company's Western Division, in 1936, and in 1940 became manager, gas operations. In 1943 he was elected vice-president of Public Service Company in charge of electric engineering, construction, and operation, testing, and research activities.

In 1952, Mr. Maxson was elected vice-president of Commonwealth Edison Company, assuming system wide responsibilities for engineering, construction, and operating for Commonwealth and its divisions. He was named senior vice-president in 1955. On April 1, 1958, he became senior consulting engineer to Commonwealth Edison Company and consultant to Sargent & Lundy.

Mr. Maxson is a board member of the Elmhurst Y.M.C.A., governing member of the DuPage Memorial Hospital, and a member of the University of Illinois Citizen's Committee and Foundation.

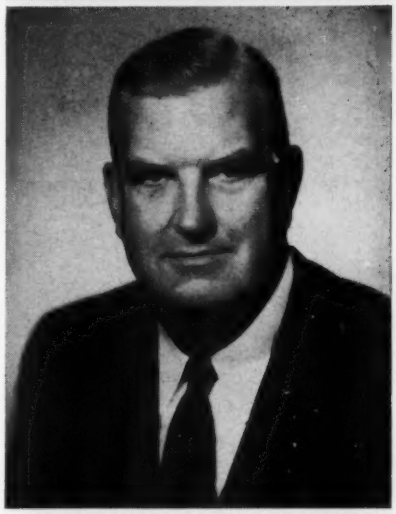
He joined the Western Society of Engineers in 1928, serving as chairman of the Program Committee during 1957-58, and as Treasurer during 1958-59.

THE 90TH ANNIVERSARY YEAR

Philip L. Coleman
Second Vice President 1959-60

Mr. Coleman was graduated from M.I.T. in 1923 with the degree of B.S. in Business and Engineering Administration. He successively has been associated with the Public Service of New Jersey, Illinois Power, Dayton Power & Light, Institutional Utility Service of New York, and since 1943 with Duff and Phelps in Chicago and a partner in that organization.

He joined the Western Society in 1950, and since has been a member of the Educational Committee and Membership Committee, and has served two years as Chairman of the Program Committee, three years on the Washington Award Commission, and two years as a Trustee of WSE. He also holds membership in the ASME. He is active in M.I.T. alumni affairs, and represents the Institute as an Honorary Secretary in Chicago.



Hjalmar W. Johnson
First Vice President 1958-59

Mr. Johnson, Vice President in charge of Steel Manufacturing of Inland Steel Company, Chicago, began his career in steel at the Joliet blast furnaces of the Illinois Steel Company. He joined Inland Steel Company in 1929 as Assistant Superintendent of blast furnaces. In 1949 he was elected Vice President in charge of Steel Manufacturing and in 1954 was also elected a Director.

He is a Director of the American Institute of Mining and Metallurgical Engineers and a Member of the American Iron and Steel Institute. In 1933 he received the J. E. Johnson, Jr. Award from the A.I.M.M.E. and in 1941 was presented the A.I.S.I. Medal. Considered one of the country's leading authorities on blast furnace technique, he is the author of numerous technical papers on the steel industry in general. Mr. Johnson was graduated from the University of Illinois in 1922 with a B.S. degree in Engineering.

He is a Director of the Indiana State Chamber of Commerce, and Friends of the Land. He has served WSE as Director, Treasurer, and in 1957 was elected Vice-President.

He received an Honorary Doctor of Engineering degree from the Michigan College of Mining and Technology, and in 1958 he received the Benjamin F. Fairless Award from A.I.M.M.E.

Ernest R. Hendrickson
Treasurer 1959-60

Mr. Hendrickson was graduated from Purdue University in 1924 with a Bachelor of Science degree in Electrical Engineering. He became affiliated with Public Service Company of Northern Illinois this same year and subsequently held the positions of Division Engineer and Division Operating Superintendent in the Company's Northern Division. He was appointed Manager of Construction for the Public Service Company in 1951. He joined Commonwealth Edison Company in 1953 as General Superintendent of Electrical Construction, was made Manager of Construction in 1956 and in January, 1958, was named Operating Manager.

Mr. Hendrickson is a former Trustee of the Western Society and has been a member for 24 years. He is a member of the American Institute of Electrical Engineers where he was active in Transmission and Distribution work, being Vice Chairman of that committee in 1955 and 1956. He is a member of the Illinois and National Societies of Professional Engineers. Mr. Hendrickson has also served as a director of the Illinois Engineering Council for several years and was a member of the Executive Committee from 1952 to 1955.

How WSE's Board Of Direction Functions

There are not many organizations in the United States that have such an outstanding group of individuals willing to devote both time and financial support to a worthy cause as the Board of Direction of the Western Society of Engineers.

The Board is made up of the President, First Vice President, Second Vice President, Treasurer, two immediate Past Presidents, and twelve Trustees. In this 90th Anniversary Issue of the Midwest Engineer, the Board of Direction, for the two fiscal years of 1958-59 and 1959-60, are presented. These are the men who are dedicated to the problems of perpetuating the Western Society of Engineers and modifying its policies to meet the problems of the Nuclear Age.

The Board meets regularly once a month, and oftener if necessary. Then members are tapped to spend almost half their time in the work of WSE.

In this day of inflation it has become increasingly difficult to operate a society that has overtones of a club type of set-up on the nominal dues of WSE. However, the Board feels that there is a definite need for the over-all services of technical and social character of WSE, and that the members will support practical policies that will continue the Western Society along present lines.

Past President 1957-58

Ormas G. Smith, chief engineer, the Illinois Bell Telephone company, completed his studies at Armour Institute of Technology for his degree in Civil Engineering. He was with the Illinois Central Railroad and in 1926 joined Illinois Bell working up to his present position by 1950. Mr. Smith was active in communications for Defense during and after World War II.

Past President 1956-57

George L. Jackson, Chief Engineer of the Illinois State Toll Highway Commission. After receiving an engineering degree from Purdue University in 1926, Mr. Jackson worked with the Sanitary District of Chicago, the City of Chicago, and the Illinois Division of Highways.

He joined the Western Society of Engineers in 1928; is also a member of the American Society of Civil Engineers.

Trustee 1955-61

Robert H. Bacon, President of R. H. Bacon & Company, received his degree in Electrical Engineering at the University of Illinois in 1916, and after 4 years with the Copper Range Mining Company, went with the McGraw-Hill Publishing Co., then Fairbanks, Morse & Co., and became a partner in Kreicker & Meloan Industrial Advertising Agency. Since 1932 he has been head of his own organization, one phase of which is Bacon's Magazine clipping Bureau. He is Past Chairman, Chicago Section A.S.M.E., Past President of Chicago Technical Societies Council, and Chicago Engineers Club.

Trustee 1959-62

Daniel Chinlund, General Plant Manager of Illinois Bell Telephone Company since 1955. He began his telephone career in 1938 after graduation from the University of Illinois with a B.S. degree in Electrical Engineering. In 1949-50 he spent a year at Massachusetts Institute of Technology under the Sloan Fellowship program, there receiving an M.S. degree in Business and Engineering Administration.

Mr. Chinlund is a past president of the Illinois Engineering Council and a past chairman of the Civic Committee of WSE.

Trustee 1959-61

John C. Conrad, President of S & C Electric Company. After undergraduate work at Yale, Mr. Conrad completed his work at the University of Chicago for B.S. degree in Science, then completed a year at the Boeing School of Aeronautics in California. During 1938-45 he was with the Douglas Aircraft Co. as properties manager covering functions of plant, manufacturing, and industrial engineering. He joined S & C in 1945, becoming president of the company in 1952.

In 1954 Mr. Conrad joined the Western Society of Engineers.

Trustee 1952-55, 1957-60

Clifford B. Cox, corporation secretary, Pacific Flush Tank Company, received his B.S. degree in Civil Engineering in 1930 from Purdue University. He was associated with the Sanitary District, and Charles F. Hurd, consulting engineer. Since 1933 he has been with Pacific Flush Tank, manufacturers of sewage disposal plant equipment. He was chief engineer during 1937-54, and is presently in charge of customer relations.

Trustee 1957-60

Frank W. Edwards, manager, Chicago Office, Stanley Engineering Co., was president of Illinois Society of Professional Engineers (1958-59), is past President of the Illinois Section A.S.C.E., director of the Illinois Engineering Council, and member of A.S.M.E. and American Society for Education. He received his B.S. in General Engineering from the University of Iowa in 1928 and a degree of Civil Engineer in 1944.

Trustee 1955-60

Virgil E. Gunlock, chairman of the Chicago Transit Board, received a bachelor of science degree in Civil Engineering from the University of Illinois. After serving in various other engineering positions, he became commissioner of Subways & Superhighways 1945-52, commissioner of Public Works, Chicago, 1952-54, and assumed his present position on July 1, 1954. He is a member and past president of Illinois Society of Professional Engineers.

Trustee 1956-59

Arthur R. Harris, Engineer of Bridges, Chicago & Northwestern Railway Company since 1923, received his B.S. degree in Engineering at the University of Missouri. He graduated from John Marshall Law School with a J.D. degree in 1932. He is a member of ASCE, AREA, ISPE, Board of Examiners, Board of Registration and Education, and Structural Engineer of the State of Illinois.

Prior to his work with C & NW he was with the Interstate Commerce Commission and with McClintic-Marshall Construction Co.

Trustee 1959-62

Harry P. Hagedorn, the Engineer of Tests for the City of Chicago, has been responsible for the testing and inspection of all materials procured by the Purchasing Department since its inception in 1948. For 15 years previously he held a similar post in the Department of Public Works.

Active in several engineering societies, he served WSE as Chairman of the Chemical and Metallurgical Section, Library Committee, and Education Committee. A graduate of the University of Illinois in Chemical engineering, he is a registered engineer in the State of Illinois.

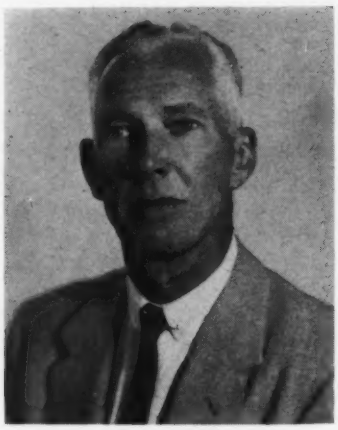
Trustee 1958-61

Carl A. Metz, Partner in the firm of Shaw Metz and Associates, graduated from the University of Illinois with a B.S. degree in Civil Engineering in 1915. For the next ten years he worked for various engineering firms as a structural engineer. In 1925 he started his own company, the Metz Engineering Co., which continued until 1947 when the partnership of Shaw Metz & Dolio, Architects and Engineers, was formed. In 1959 it became Shaw Metz and Associates.

Mr. Metz is active in a number of organizations of engineers and architects.

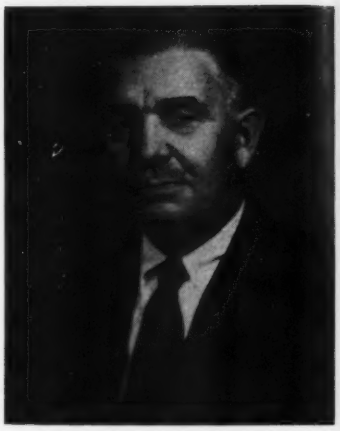
Trustee 1957-60

Howard R. Olson, Associate Director of the Illinois Metropolitan Area Planning Commission, is a graduate civil engineer of Iowa State College. His professional experience has been in public works, construction, municipal and highway engineering, and city and regional planning. He joined the staff of the Chicago Regional Planning Association and was with the new Planning Commission.



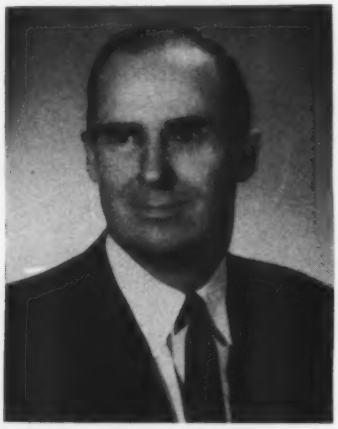
Trustee 1960

S. Robert Price, Manager of Pump and Condenser Department of Ingersol-Rand Company, graduated from the University of Missouri, School of Mines and Metallurgy, with a B.S. degree in Mechanical Engineering. He joined Ingersol Rand in 1937, worked as an Application Engineer, 1938-42, and served as Sales Engineer, 1947-56, in New York and Cincinnati. Mr. Price is also a member of ASME.



Trustee 1956-59

Ernie A. Schmidt, Commercial Vice President of the I-T-E Circuit Breaker Co. He attended the Milwaukee School of Engineering and the University of Wisconsin. He worked with consulting firms and in 1930 joined United Engineers & Constructors Inc. He joined the I-T-E organizations in 1936. His responsibilities cover 14 midwestern states. Mr. Schmidt is a member of AIEE and AISE.



Trustee 1959-62

Frank M. Scott, Manager, Utility Sales, Chicago District, Allis-Chalmers Manufacturing Co., received his B.S. degree in Electrical Engineering at the University of Nebraska in 1940. He was Regional Heavy Equipment Specialist and Sales Representative. He spent ten years in the Large Motor-Generator Department as a Design Engineer and in a Supervisory capacity. He served as Lieutenant Colonel (G4), in the 93rd Division overseas, World War II. Mr. Scott is a member of AIEE and currently is Treasurer of the Chicago Section of ASME.

Trustee 1956-59

Frank V. Smith, General Manager of Sargent & Lundy, was born in Australia. He graduated from the University of Melbourne with a B.E.E. degree in 1921. He then came to the United States and became associated with the Westinghouse Electric Manufacturing Co. at East Pittsburgh, Pa. from 1921 to 1927 as a Central Station Engineer. He joined Sargent & Lundy in 1927, and became a partner in 1945; Chief Electrical Engineer in 1946; and General Manager in 1954. Mr. Smith is a Fellow of AIEE and a member of NSPE.

Trustee 1959-62

Eugene J. Stankiewicz, Chief Structural Engineer and Partner in Sargent & Lundy, was graduated from the University of Illinois in 1927 with a Bachelor of Science degree in Civil Engineering. He has been employed in engineering work with the Koppers Construction Company of Pittsburgh, Elwyn E. Seelye, Consulting Engineers, New York and Commonwealth & Southern Engineering Division, in Jackson, Michigan. He joined Sargent & Lundy in 1940.

In 1950 Mr. Stankiewicz became a member of the Western Society.

DEAN H. MITCHELL STATION NORTHERN INDIANA PUBLIC SERVICE COMPANY *414,300 kw—3 Units*

Power in Northern Indiana . . .

Abundant water supply and highly favorable transportation facilities have been important factors in the amazing development of heavy industry in the Northern Indiana area. Its steel production and oil refining are a major element in the American economy. Northern Indiana Public Service Company has played an important role in this growth and is gearing itself to meet the even larger future of this industrial concentration. When the completion of the great St. Lawrence Seaway project stimulates a new flow of trade into the Middle West, Northern Indiana will experience a further expansion in industry, commerce and population. The new Dean H. Mitchell Station represents a big step in the company's program to provide adequate electrical facilities for the load to come.

FULL COLOR BROCHURE outlining the scope of Sargent & Lundy services will be sent on request.

SARGENT & LUNDY
ENGINEERS

140 SOUTH DEARBORN STREET, CHICAGO 3, ILLINOIS

"Berthplace" of Inland Steel . . .

Down through America's Great Lakes come the ships of the Inland fleet . . . a steady procession of giant ore carriers to feed the hungry blast furnaces at the Indiana Harbor Works. Here, Inland Steel Company, fastest growing major steel producer in the U.S., has boosted its steelmaking capacity 91 per cent since the end of World War II. Its present annual capacity of 6,500,000 ingot tons makes it the third largest steel plant of the nation—and plans for even greater growth are already under way.

Strategically located in the Chicagoland area—Inland is a primary steel source for the enormous midwestern industrial complex . . . dependably serving manufacturers with a full line of carbon steel products . . . flat rolled, bars and structural shapes.

INLAND STEEL
30 West Monroe Street · Chicago 3, Illinois

Chicagoland's own steel family in the steel center of the world

Joseph T. Ryerson & Son, Inc.
Inland Steel Products Company

Inland Steel Container Company*
Inland Lime & Stone Company*
**Division*

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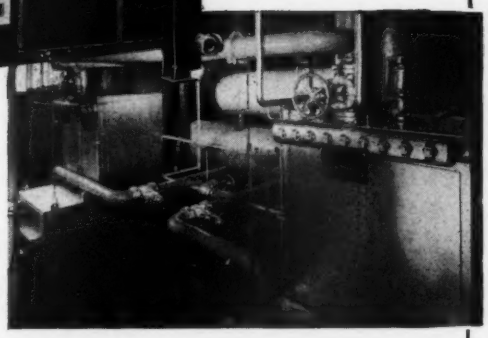
In new plants large and small...

The C-E High Temperature Water Boiler offers savings of 10 to 20%

Shop-assembly view showing steel frame and pressure parts for 25-million Btu unit prior to installation of refractory, insulation block, and welded gastight casing.



Compactness of C-E HCC Boilers is demonstrated in this view of two 10-million Btu units installed at a new Michigan high school.

Representative list of C-E HCC Boilers in service, under construction, or on order

	No. of Units	Normal Output ea.— Btu/Hr. (millions)	How Fired
A. E. Smith High School Riverview, Michigan	2	10	Oil
J. Bishop & Co. Malvern, Pa.	1	12	Oil
Colorado State College Greeley, Colo.	1	60	Oil— Nat. Gas
Cross Company, The Frazer, Michigan	2	12	Nat. Gas— Oil—
Defense Construction Ltd. Camp Gagetown, N. B., Canada	3	70	Pulv. Coal Gas
Erie Mining Company Aurora, Minn.	2	65	Stokers— Oil or Gas
Convair Astronautics Div. General Dynamics Corp. San Diego, Calif.	2	30	Oil— Nat. Gas
General Motors Overseas Santos, Brazil	1	12	Oil
Hillcrest Medical Center Tulsa, Oklahoma	1	30	Nat. Gas
Marquardt Aircraft Co. Ogden, Utah	2	12	Oil— Nat. Gas
Michigan State University Oakland, Michigan	1	12	Oil— Nat. Gas
New Florida State Prison Raiford, Florida	2	30	Oil— Nat. Gas
North Carolina Wesleyan College Rocky Mount, N. C.	2	18	Oil— Nat. Gas
U. S. Air Force Academy Colorado Springs, Colorado	3 2	100 30	Oil— Nat. Gas
U. S. AIR FORCE:			
Clinton County Air Force Base Wilmington, Ohio	1	16	Stoker
Dover Air Force Base Dover, Delaware	3	50	Oil— (Fut. Coal)
Forbes Air Force Base Topeka, Kansas	3	42	Oil— Nat. Gas (Fut. Coal)
Grand Forks Air Force Base Grand Forks, North Dakota	2	25	Stokers— Oil
McGuire Air Force Base Wrightstown, N. J.	4	50	Stokers
Minot Air Force Base Minot, North Dakota	2	25	Stokers— Oil
Plattsburgh Air Force Base Plattsburgh, N. Y.	2	50	Oil
Portsmouth Air Force Base Portsmouth, N. H.	2	110	Oil— Nat. Gas (Fut. Coal)
Wright-Patterson Air Force Base, Dayton, Ohio	1	30	Stoker
Wuthsmith Air Force Base Oscoda, Michigan	2	25	Stokers
Air Force Base Torejon, Spain	3	43	Oil
U. S. Navy Auxiliary Air Station Fallon, Nevada	2	15	Oil

The list at right points up the versatility and widespread acceptance of Combustion Engineering's HCC boiler. For industrials, schools, institutional use, military bases — wherever there is extensive space to be heated — C-E high temperature water has a place.

Featuring the same principle applied by Combustion in many of its large utility boilers, the C-E LaMont Controlled Circulation Hot Water Boiler offers a compact and effective arrangement of heating surfaces. This design gives precision temperature control, and, dependent upon local conditions, the HCC can save 10 to 20 per cent in maintenance and operating costs — a significant factor when considering a heat source.

Available in a wide capacity range — from 10 to 300-million Btu's — these boilers operate at water pressures up to 500 psi and temperatures to 470 F or higher. The smaller capacity HCC's are completely shop-assembled, while the intermediate and large units are shipped in varying stages of assembly. This C-E practice greatly reduces erection costs.

If you are in the market for boilers, either for space heating or process requirements, it may prove greatly to your advantage to investigate C-E high temperature water as your heat source.

Because individual needs vary, *both* steam and hot water have their applications. Combustion Engineering can furnish either, and our engineers are exceptionally qualified to discuss *impartially* with you or your consultants the method most suitable for your situation.

Write for further details on Combustion Engineering's High Temperature Water Boilers.

COMBUSTION ENGINEERING

C-190B

Combustion Engineering Building, 200 Madison Avenue, New York 16, N. Y.

ALL TYPES OF STEAM GENERATING, FUEL BURNING AND RELATED EQUIPMENT; NUCLEAR REACTORS; PAPER MILL EQUIPMENT; PULVERIZERS; FLASH DRYING SYSTEMS; PRESSURE VESSELS; SOIL PIPE

WHY BELONG TO WSE?

When the Western Society of Engineers was founded in 1869, it was the fourth engineering Society to be established in the United States. For many years, it was *the* important engineering Society in Chicago and the Middle West and most engineers in the area belonged only to WSE.

Then engineering became more and more specialized and each group developed its own Society to serve its own specialized interests.

The Civil Engineers had already established the American Society of Civil Engineers. Then came the American Society of Mechanical Engineers, American Institute of Electrical Engineers, and the American Institute of Mining Engineers which later added Metallurgy and Petroleum to its group. These were the Founder Societies and the ones that were instrumental in building the Engineering Societies Building in New York through a gift from Andrew Carnegie.

The development of these specialized Societies continued until today there are probably some 50 different groups that represent the specialized interests of engineers.

Since most engineers belong, and should belong, to their own groups, the question is often asked, why should I belong to WSE? It is a question asked by all groups ranging from the student to the engineer beyond retirement age.

Probably the most important reason of the many that are presented in answer to that question is a human one and basically it is the most important reason for the continued existence of WSE through the years. The engineer from purely human considerations likes to know engineers in all of the fields of engineering.

He enjoys meeting engineers who are internationally known in fields so far removed from his own that he would have very little opportunity to know them if it were not for WSE.

In presenting information that helps answer the question, why belong to WSE, we quote from an article "How WSE Serves its Members" which was prepared several years ago by the late Gustav Egloff, past president of WSE and an engineer with as world-wide fame as any engineer in the United States.

The Society's roster thus includes engineers from all branches of the profession. Although headquarters are in Chicago and most of its members reside in that area, the Society has non-resident members in every section of the United States and many foreign countries. It is unique among engineering societies and has much to offer engineers of all age brackets from students to men havng long records of accomplishment.

Fulfills Five Needs

The Western Society is so organized that it fulfills five fundamental needs of the engineering profession by encouraging the advancement of:

(1) The theory and practice of engineering
(2) The interests of the profession
(3) The education of its members
(4) The interests of the community
(5) The interests of the employer

For the purpose of advancing the theory and practice of engineering, the Society has ten sections, representing different interests, which meet to present and discuss technical subjects.

(1) Bridge and Structural Engineering
(2) Chemical and Metallurgical Engineering
(3) Communications Engineering
(4) Electrical Engineering
(5) Fire Protection and Safety Engineering
(6) Gas, Fuels and Combustion Engineering
(7) Hydraulic, Sanitary and Municipal Engineering
(8) Mechanical Engineering
(9) Traffic Engineering and City Planning
(10) Transportation Engineering
(11) Education and Research are now represented by a newly organized Division
(12) The Armed Services are represented in all phases of the program planning.

The professional interests of Western Society members are served through many committees. In a long term program for the advancement of engineering as a profession, activities for younger members are stressed. This program stems from the recognition by the Society that it has a primary obligation to aid the young graduate in becoming adjusted to his position in the scheme of things. In the development of an engineering career, the value of a professional society cannot be overemphasized. An engineering society can offer the young graduate an opportunity both to keep his technical knowledge up-to-date and to make professional contacts. Participation in society activities also gives him a sense of belonging to the profession, and as a corollary, imbues him with a professional pride.

Midwest Engineer

Professional interest must also be stimulated by good publications. The Western Society has such a medium in its official journal, the *Midwest Engineer*, which is published monthly except June and July. The articles included are concerned with subjects of broad engineering interest. News of Society activities keeps the members in close touch with the work going on. Future meetings are announced and past meetings are reported upon both pictorially and in print.

Educational Program

The criticism most often directed at engineers is that they know too much of engineering science, and mathematics, and too little of writing, speaking, economics and cultural subjects. The Society believes that the engineer must have an understanding of the contemporary world and its inhabitants in order to utilize his technical skill to the advantage of society and himself. He must be able to express his ideas to others and understand how these ideas fit into the general economic picture. It is indeed difficult for the engineer to acquire all of the background he needs in non-scientific studies during college. He has necessarily devoted a great portion of his time in school to an acquisition of knowledge of the natural laws which are basic to his profession. For these reasons the Western Society is making it possible for the engineer to supplement his knowledge in other fields after leaving school.

The slogan for this General Education Program is "Thinking, Reading, Speaking, Writing." Unless the engineer has developed these talents and can communicate his ideas in a coherent report to superiors and co-workers, they are not of much use to mankind or to his employer. The engineer as a businessman must also carry on some correspondence and frequently write articles for technical publications. He often addresses technical meetings, and if he has civic interest truly at heart, will speak before lay groups to acquaint them with the part engineering plays in their lives. To prepare the engineer for these responsibilities, the Western Society with the cooperation of the Founder Societies has at various times sponsored courses in Business Management for Engineers; Investments for Engineers; Human Relations in Management; and Rapid Reading.

The New Papers Group

The recently organized Speaker and Paper Group in WSE is sort of a Toastmasters luncheon where each member of the group presents a paper or a speech. The presentations are analyzed by the group with the idea of improving both the organization of the material and delivery.

The Western Society serves the civic interests of the community in a number of ways. The Civic committee keeps constant vigilance over civic affairs relevant to engineering. Examples of matters studied by the various subcommittees are civil service operations, registration laws, smoke abatement, building codes, and traffic problems. They are deeply concerned with all engineering problems which affect the health, operation and beauty of the city. As an engineering society of recognized standing, Western is frequently asked to furnish members for committees of the city and state on public engineering problems. For example, a number of Western Society members are on the City Planning Commission. Members are also working on the Sag-Calumet Navigation Project.

The activities of the Western Society are also of high value to the employer of engineers. Keeping in touch with technical advances and engineering activities is a must for any company that wishes to survive. Personal contacts made at the Society are tangible factors in increasing sales and maintaining business relations. Society participation also increases morale among engineering employees. All concerned benefit from the broadening influence of contact with leading engineers whom the employee meets at Western Society headquarters.

Young Engineers Forum

The Western Society, industry and the profession recognize that young engineers entering the business world need a broadened objective to develop their own futures to the maximum and to bring to their specialized engineering work a better understanding of the field of engineering as a whole and its place in business generally.

The Western Society of Engineers, therefore, through its Young Engineers Forum, has planned to provide the young engineer with an opportunity to meet and discuss with other young engineers and mature engineers who have become established in their professions. This program is designed to expand the young engineer's knowledge of engineering in the major lines of business in the community.

Leaders in the fields of utility, oil, small businesses, railroads, steel, packing houses and heavy manufacturing have been scheduled to speak at the forums.

Club-like Quarters

The quarters of the Western Society occupy three floors. The Western Society dining room, located on the fifth floor, seats around 250 people, and can be divided into units of various sizes to provide privacy. It is open five days a week for lunch and dinner and by special arrangement at other times. It accommodates the dinner meetings of a number of cooperating scientific and technical societies and other groups.

The sixth floor includes a check-room, lounge, bar and WSE offices. The lounge is beautifully appointed and comfortable. It serves as a gathering place for groups who are holding dinners or programs in the quarters, and its central location makes it an ideal meeting place for engineers and their families.

On the 7th floor is the auditorium and two other meeting rooms. The auditorium is acoustically treated and well-lighted, is equipped with modern public

Requirements for Membership in WSE

GRADE OF MEMBERSHIP	Years of Experience*	Other Qualifications	References	FEES AND DUES		
				Entrance Fees†	Annual Dues Res.	Annual Dues Non-Res.
Member	10**	Practice of Engineering	3 Members	$20.00	$28.50	$20.00
Associate (First 7 yrs. in grade)	6*	Practice of Engineering	3 Members	10.00	15.00	10.00
Associate (After 7 yrs. in grade)	6*	Practice of Engineering	3 Members	None	28.50	20.00
Associate (Transfer from student member)	6*	Practice of Engineering	3 Members	None	15.00	10.00
Affiliate	2	Interested in Engineering	3 Members	16.50	25.00	15.00
Student	Not Required	Engineering Student in College of recognized standing	Dean or Other School Authority	None	3.50	3.50

NOTES: **Two of the 10 must have been in responsible charge.
*Graduation from an accredited engineering college is accepted as six years of experience.
†Entrance fees are waived for members of recognized engineering groups.

address and picture projection systems which permit varied and effective program presentation. It is indeed a far cry from the usual hotel banquet room where acoustics are poor and someone's head is constantly bobbing up between the screen and slide projector. There are 200 comfortable theater-type seats in the auditorium. Another meeting room at the rear of the auditorium will seat 100 for a meeting and is also available for certain types of food service such as buffet luncheons or dinners.

A small conference room suitable for a group of 25 is also located on this floor.

At present, about 75 groups are making use of the headquarters for facilities. Appropriate meeting places for these societies have been scarce and expensive, and the Western Society is pleased that it can offer such service to other societies on a cost basis.

The quarters of the Western Society of Engineers represents an outlay of some $300,000 which was contributed by members, employers, and a number of industries. The quarters offer complete facilities to all professional groups of the community, both large and small, and provide the professional people of Chicago with a meeting place where they may reap the full benefits of close association with each other.

Program for the Year

Once a month there is an evening program that usually consists of a social Hour and Dinner with a Dinner Speaker, followed by two or three short simultaneous technical sessions conducted by the sections.

Then on Wednesdays, there is a luncheon program with speakers of national prominence on subjects related to the broader interests of all the members. At these luncheons the Western Society does for engineering what the Executive Club luncheons do for business.

All of the Sections and Committees have activities of various kinds during the year.

The Special Events Committee arranges for two or three Ladies Nights during the year. The Annual Travel and Bazaar night usually held in January or February has become an important Social event in the life of WSE.

The Kick-Off Dinner in the Fall, the Washington Award Dinner in cooperation with the Founder Societies, and the Annual Dinner and Installation of officers around June 1 have all become traditional events during the year.

Then too, many company organizations, in addition to other Societies, use the facilities for various types of technical functions such as conferences as well as luncheons and dinners.

You belong to WSE because:

1. You want to meet and know engineers who are getting ahead in the world.
2. You want to broaden your contacts with fields of engineering other than your own.
3. You want to take advantage of of the Club-like facilities provided by WSE.
4. In addition to broadening your technical interests, you want to broaden your Social contacts among engineers.
5. You want to cooperate with other types of engineers in helping to build a better recognition for engineers.
6. And, you want to have more fun out of life and WSE also helps provide that.

It's easy to join

If you are already a member of an engineering group where the requirements for Membership are comparable with WSE, the entrance fee is waived. Just fill out WSE simple application form and the Membership Committee will expedite your entrance into WSE.

1959-60 WSE PROGRAM

See page 27 for separate Luncheon Program

Wed., Sept. 9, 1959	Special Luncheon not on regular luncheon calendar for all committees and officers and trial run of our new dining room set up.
Mon., Sept. 14, 1959	Kick off Dinner at WSE. Open house to inspect refurbished facilities and new 5th floor dining room layout and to test new food catering arrangements.
Tues., Sept. 29, 1959	Monthly general meeting. Social hour—Dinner—Technical meetings
Mon., Oct. 5, 1959	Young Engineers Forum Dinner
Mon., Oct. 19, 1959	Young Engineers Forum Dinner
Tues., Oct. 27, 1959	General meeting and dinner
Mon., Nov. 2, 1959	Young Engineers Forum Dinner
Mon., Nov. 16, 1959	Young Engineers Forum
Fri., Nov. 20, 1959	Ladies Night Special Event tied in with 90th Anniversary theme
Tues., Nov. 24, 1959	General meeting dinner, Technical Sessions
Mon., Dec. 7, 1959	Young Engineers Forum
Tues., Dec. 15, 1959	General Meeting and Dinner
Tues., Jan. 19, 1960	General Meeting and Dinner
Fri., Jan. 29, 1960	Ladies Night—Bazaar and Travel program
Tues., Feb. 23, 1960	General Meeting and Dinner
Tues., Mar. 22, 1960	General Meeting and Dinner
Mon., April 11, 1960	Washington Award Dinner—Furniture Club (subject to Confirmation by recipient)
Tues., April 26, 1960	General Meeting and Dinner
Tues., May 24, 1960	Annual Meeting—Dinner and installation of officers
1960 Summer Program	It is planned to have the WSE dining room open all summer for food and beverage service if our new catering service works out.

New Plans for WSE Luncheon Programs

Last season a great deal of study was given to the problem of presenting outstanding WSE luncheon programs and in building up the attendance. The results were extremely gratifying both as to the quality of the programs and in the fine turnout of members and guests at these luncheons.

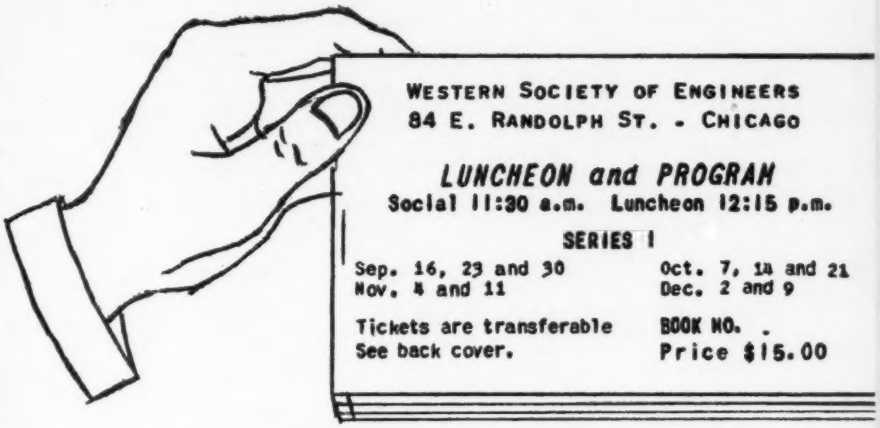
For the 1959-60 season, another idea will be thoroughly tested. It is planned to hold 3 series of 10 luncheons and to sell books of tickets for each series. The book of 10 tickets will sell for $15.00 or $1.50 per ticket as compared with $1.75 for individual tickets.

The book of tickets will be registered as designated by the purchaser. Each ticket is transferable for the date shown and will guarantee the ticket holder a seat.

In addition to being assured a good seat for the luncheons, the book of tickets adds to their value for business entertaining. If the holder can't attend the luncheon, the ticket can be given to some one who can attend.

The luncheon committee hopes to have at least 100 of these ticket books out so that every luncheon speaker will be assured of a capacity audience. With that assurance a program of nationally known speakers on all important phases of engineering programs will be arranged. It is believed that with the support of WSE members and their organizations it will be possible for the WSE luncheons to command the same prestige for engineering as the Executive Club luncheons do for business.

Send your order in today for one or more of the Series I luncheon books.



Above, book of 10 tickets for the 1st series (Series I) of WSE Luncheons for the dates shown. Each book is serially numbered and will be registered as designated by the purchaser.

WESTERN SOCIETY OF ENGINEERS
84 E. RANDOLPH ST.

LUNCHEON
SEPTEMBER 16, 1959
Social 11:30 am Lunch 12:15 pm

Name _____

Company _____

Transferable for date shown

Sample ticket for the first Luncheon of Series I on September 16. To be signed for attendance record.

For the 1959-60 season it is planned to hold 3 series of 10 luncheons with programs at the Western Society of Engineers. A book of tickets for each series will be sold at $15.00 ($1.50 each) and will guarantee the ticket holder a seat. Each ticket is transferable for date shown. Series ticket holders will not need to make reservations. Individual tickets at $1.75 will require reservation. RA 6-1736.

Above, back cover of the Series I Book of Luncheon tickets.

1959-60 Luncheon Program

Series I			Series II			Series III		
Sept.	16, 1959	WSE	Dec.	16, 1959	WSE	March	30, 1960	WSE
	23,	WSE						
	30,	WSE	Jan.	6, 1960	WSE	April	6,	WSE
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The Washington Award, administered by the Western Society, is recognized as possibly the most important award in the profession of engineering.

The late John W. Alvord, Past President of WSE, in 1916 proposed the establishment of an honor award by the Society and donated a fund for its maintenance. The scope of the award was later enlarged and the name "Washington Award" adopted as a reminder that the first president was an engineer. The four "founder" engineering societies were invited to elect two representatives each to serve on the Commission of Award which also includes nine members to be selected by the Western Society of Engineers.

The purpose of the Award is the "recognition of devoted, unselfish and pre-eminent service in advancing human progress." It is conferred each year upon an engineer whose professional attainments, in the judgment of the commission, have pre-eminently advanced the welfare of mankind.

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1956—Robert E. Wilson, for unusual dedication of leadership through science and engineering to the advancement of research, industry, education and public affairs.

1955—Charles Erwin Wilson, for significant leadership in engineering and management for altruistic devotion to national defense.

1954—Lillian Moller Gilbreth, for her outstanding contributions to engineering and scientific management for her unselfish devotion to the problems of the handicapped.

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1951—Edwin Howard Armstrong, for outstanding inventions basic to radio transmission and reception, and notable service to his country.

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1947—Karl Taylor Compton, for progressive administration of engineering education for leadership in research and for advancement of American industry in technology.

1946—Vannevar Bush, for outstanding leadership in organizing and directing scientific resources of the nation toward victory in World War II.

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Wise, Royal C.
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Membership List

The following list contains the names and last known information of all members corrected to June 15, 1959. This list has been prepared exclusively for the use and convenience of members. It is not to be used for solicitations or circularizations.

After each name is an abbreviation showing the year in which each became a member and his present grade. In these abbreviations Hon. M, is for honorary member; M, member; A, associate; S, student and Aff, affiliate.

City and state have been omitted for all Chicago addresses.

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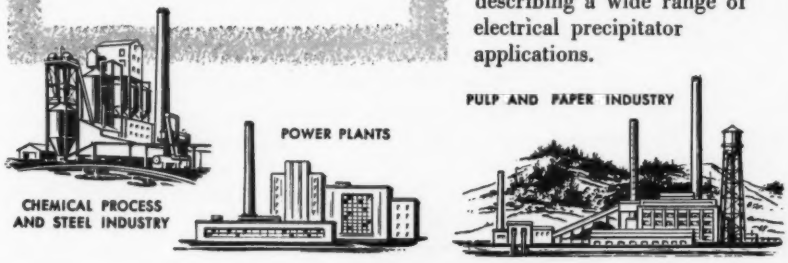

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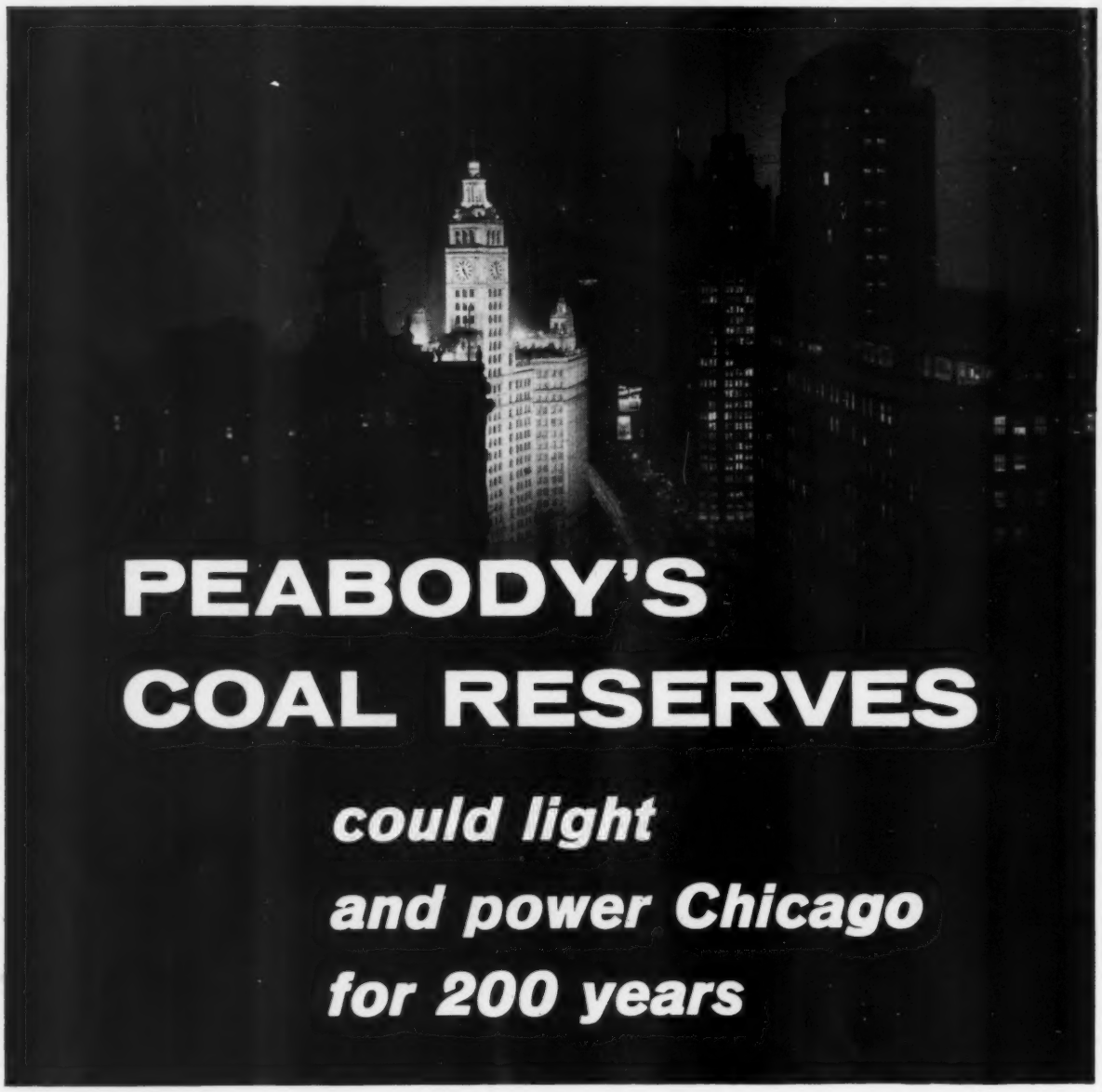

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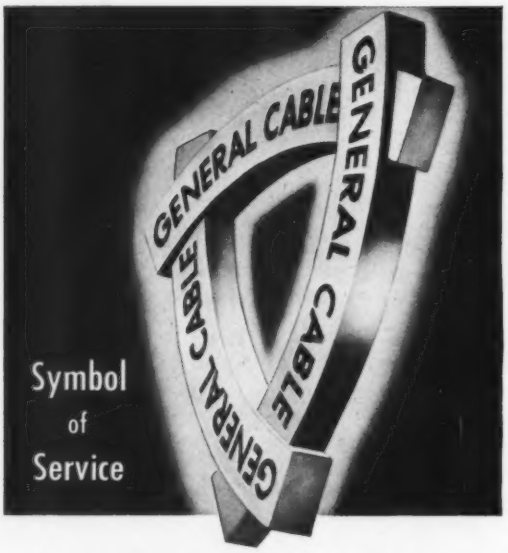

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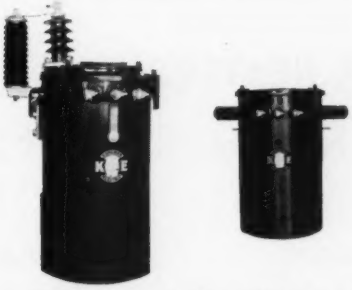

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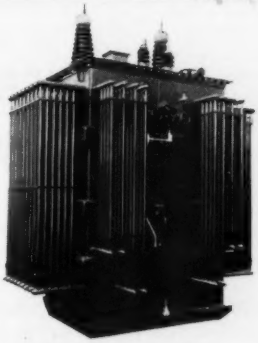

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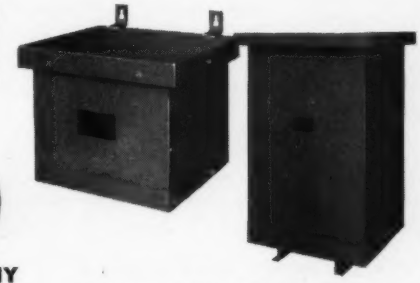

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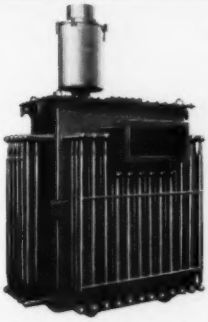

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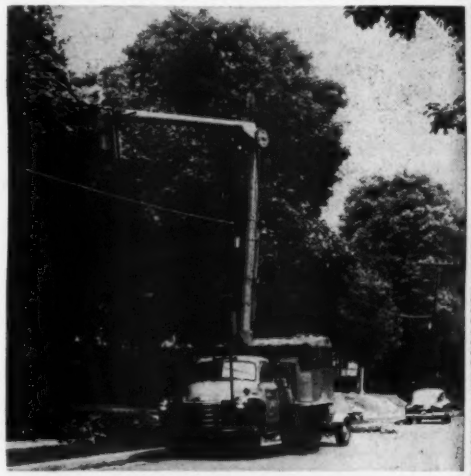

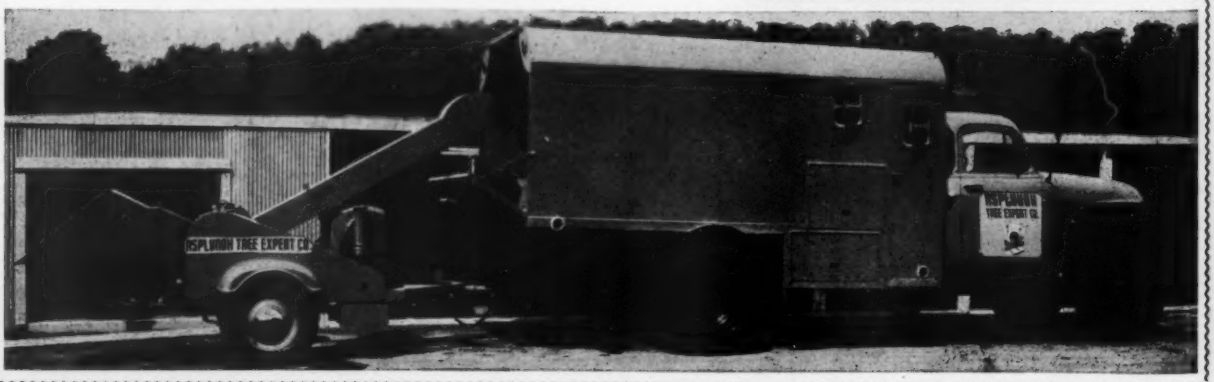

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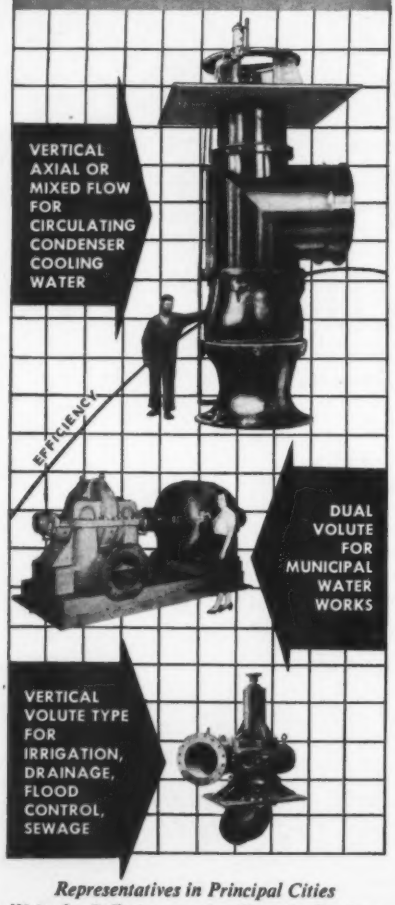

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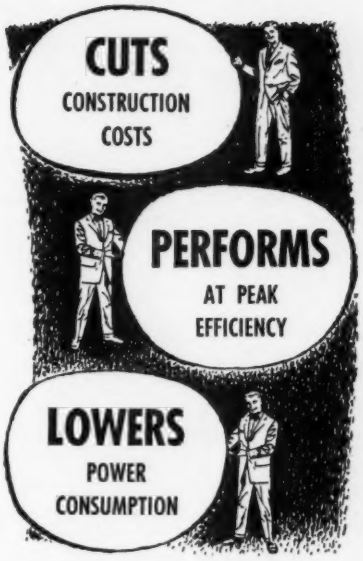

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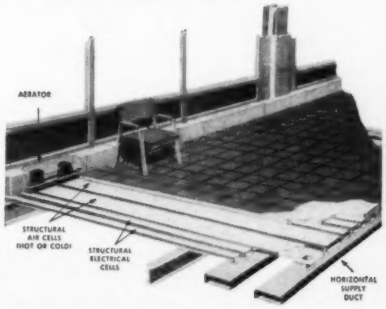

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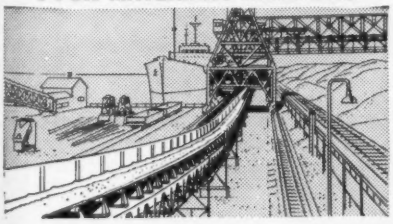

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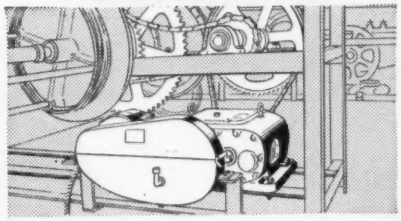

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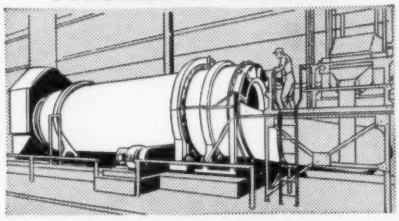

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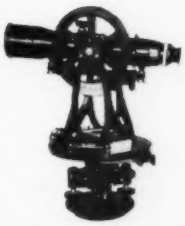

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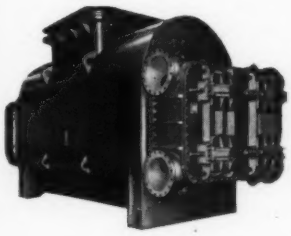

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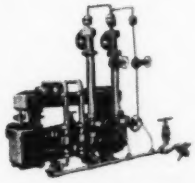

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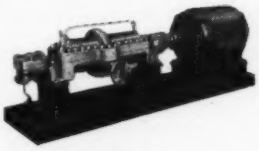

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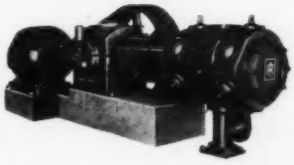

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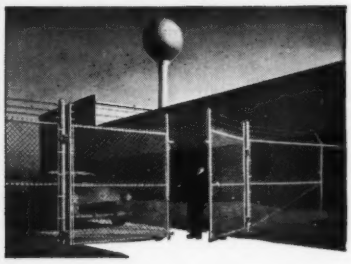

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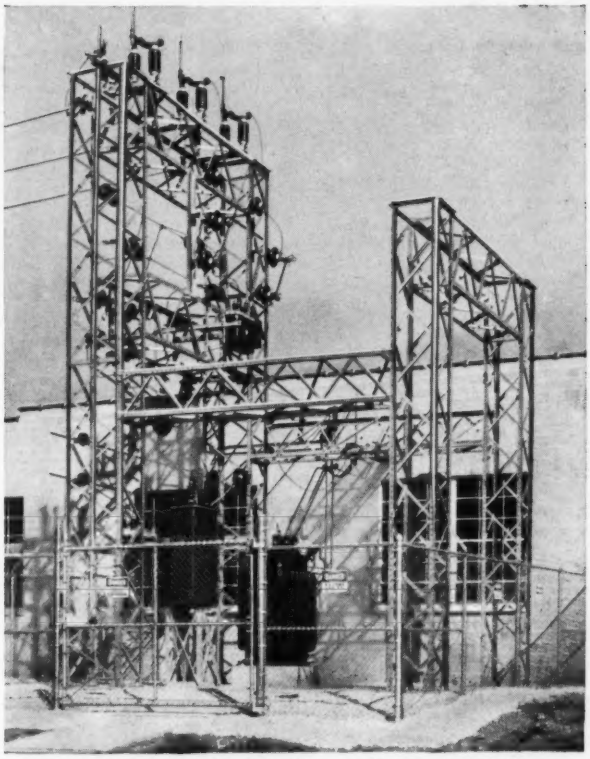

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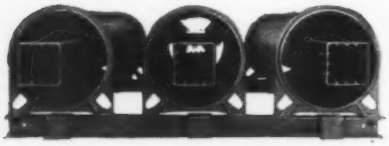

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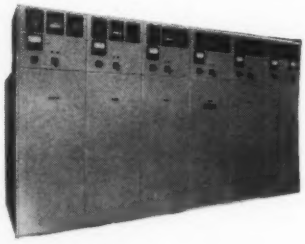

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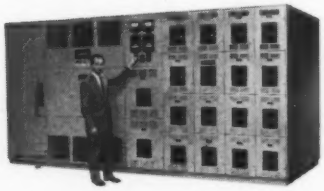

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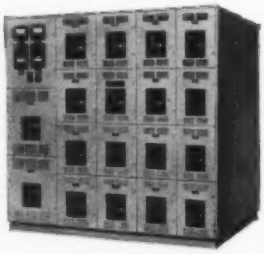

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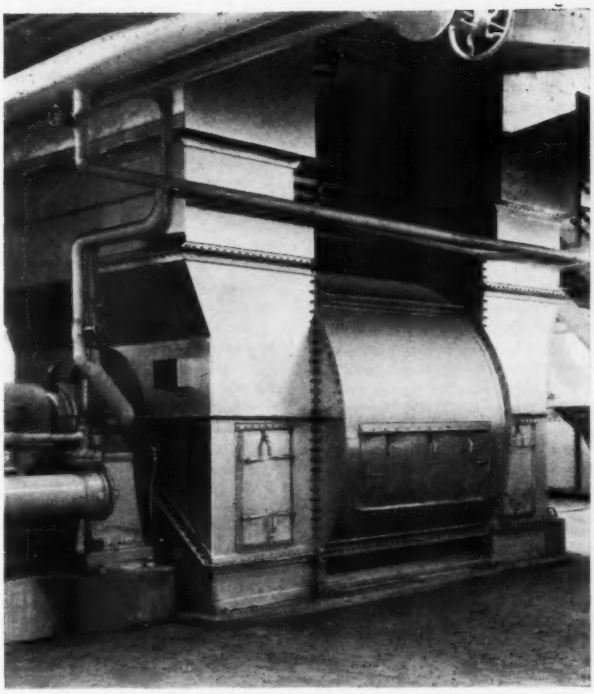

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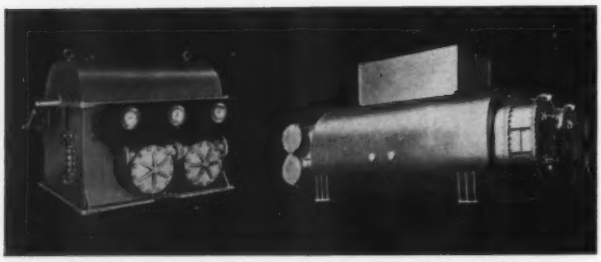

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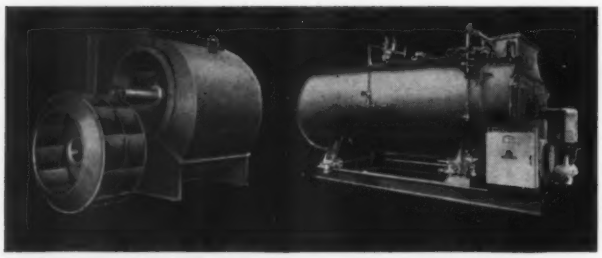

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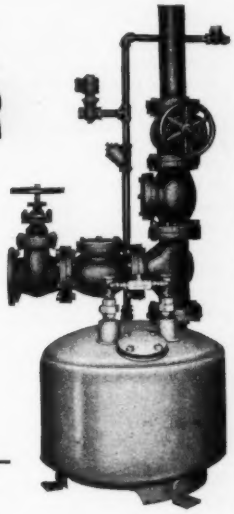

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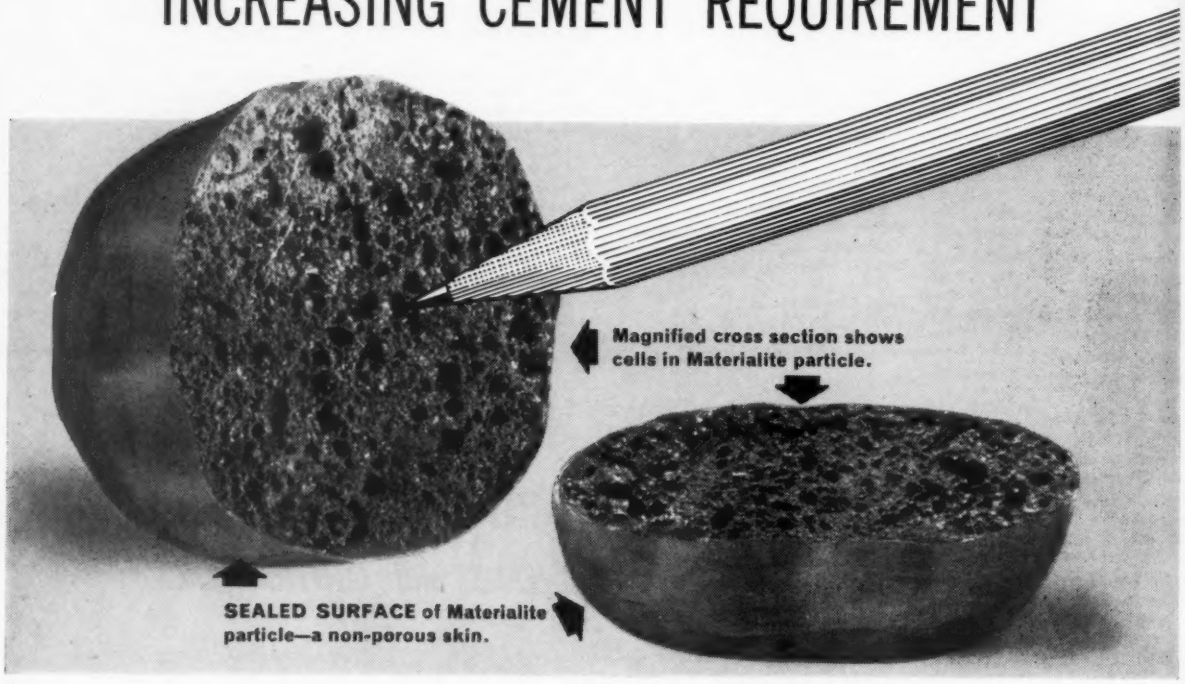

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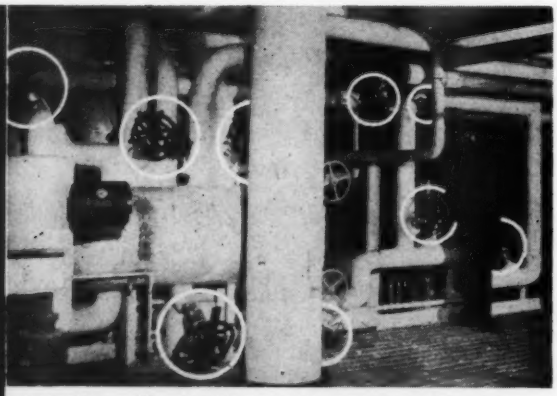

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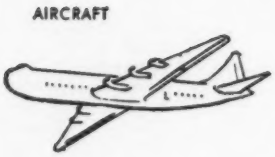

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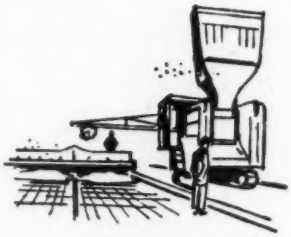

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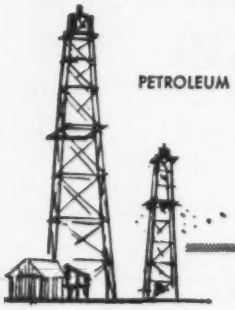

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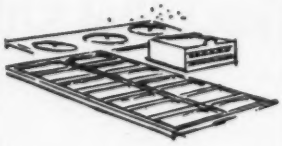

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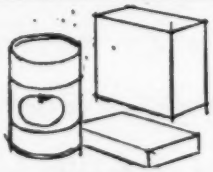

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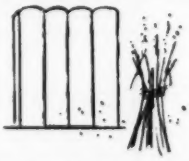

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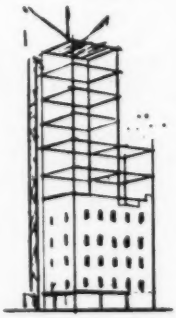

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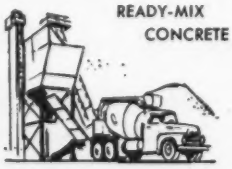

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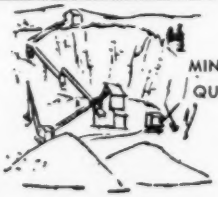

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Allen, E. W.						1921—24	
Alvord, J. W.	1910—11	1908—09				1902—05	
Andrew, C. R.						1938—43	
Appleton, Thos.							1894—95
Armstrong, W. C.	1912—13	1911—12				1907—10	
Arn, W. G.						1934—36	
Arnold, B. J.	1906—07					1900—03	
Artingstall, S. G.	1887—88					1886—88	
Bacon, Robert H.						1955—	
Bainbridge, F. H.						1906	
Baker, H. S.						1914—17	
Baker, Ira O.			1887—88 1892—93	1911—12			
Baldwin, A. S.	1919—20			1918—19			
Barnes, D. L.					1894—96		
Bates, Onward	1899—00						
Bates, W. S.					1888—89		
Becker, Donald N.	1951—52	1950—51			1948—50	1944—46	
Bement, A.		1912—14	1910—11				
Bennett, J. Gardner		1939—40	1938—39	1937—38			
Bernhard, Leroy F.						1949—52	
Blake, Edw. J.		1900—01					
Booth, K. F.			1882—83				
Boysen, Albert P.	1955—56	1954—55	1953—54			1951—53	
Breckenridge, L. P.			1902—03	1905—06			
Brill, G. M.						1909—12	
Brumley, D. J.	1932—33	1931—32 1929—30	1928—29	1927—28			
Brunner, John						1906—09	
Bulley, Allen E.					1952—54		
Burdick, C. B.	1918—19		1915—16				
Burt, H. J.	1917—18		1916—17				
Bushman, A. K.			1944—45			1941—44	
Carpenter, Horace			1923—24				
Carter, Edw. C.	1905—06	1892—93					
Cartlidge, C. H.		1916					
Casad, M. W.					1945—47		
Cauley, F. F.						1924—27	

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3. TOUGHNESS—Steel is tough and ductile. It has a great capacity to take abnormal loads or impacts; and when pushed beyond capacity, steel will yield without breaking—adding a safety factor where safety is vital.

4. WORKABILITY—Steel can be sheared, drilled, punched, flame-cut, machined, welded and formed . . . it lends itself to practically every known method of fabrication. This permits extensive preassembly of material at the plant—reducing assembly forces at the site. Design possibilities are practically unlimited. And only steel gives you the advantages of bolted, riveted or welded connections.

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Chamberlain, O. P.	1911—12	1910—11	1909—10			1915—18	
Chanute, Octave	1901—02	1885—86	1888—89			1891—94	
Chase, Frank D.	1931—32	1930—31		1929—30		1925—28	
Chesbrough, E. S.	1873—77 1880—82						
Clark, H. H.				1923—24			
Clarke, W. H.						1869—74*	
Cleveland, H. W. S.						1874—75*	
Coleman, Philip L.			1959—60			1957—59	
Condron, T. L.			1899—00				
Conrad, John R.						1958—	
Cooley, L. E.	1890—92	1887—88					1888—89
Copeland, F. K.	1920—21	1919—20					
Corthell, E. L.	1889—90						
Cosley, H. H.						1933—35	
Cox, Clifford B.						1952—	
Cregier, D. C.	1883—85	1882—83	1880—82				
Cunningham, J. D.						1935—37	
Curtis, W. W.						1910—13	
Dailey, John A.						1922—25	
Dalstrom, O. F.						1917—20	
Dart, C. R.			1911—12		1913—20		
Davidson, F. E.						1913—16	
DeBerard, W. W.				1917—18		1918—20	
De Leuw, C. E.	1953—54	1952—53	1951—52			1947—50	
Draper, H. C.			1894—95				
Durham, C. W.						1874—75*	
Edwards, Frank W.						1957—	
Egloff, Gustav	1949—50	1948—49	1947—48			1938—41 1944—47	
Elfstrom, P. R.	1944—45	1943—44	1942—43		1938—42		
Eshbach, Ovid W.	1952—53	1951—52	1950—51				
Felt, C. F. W.		1920—21					
Ferguson, William B.						1952—53	
Field, H. H.						1931—33	
Finley, Wm. H.	1902—03	1901—02	1900—01				
FitzSimmons, Chas.					1880—87	1889—92	
Fowle, F. F.	1935—36	1922—23	1921—22		1920—21		
Fowler, M. M.				1926—27		1923—26	
Fox, E. Gordon	1940—41		1939—40	1938—39			
French, W. M. R.						1875—78*	
Garcia, John A.	1928—29	1927—28	1926—27	1925—26			
Gayton, L. D.						1932—34	
Gear, Harry B.	1933—34	1932—33	1930—32				
Gebhardt, G. F.				1914—15			
Gerber, Emil					1896—98		
Glaver, J. G.						1912—15	
Gnaedinger, John P.						1954—	
Goldmark, Henry							1896
Gordon, Bruce A.						1952—55	
Gordon, F. G.	1942—43	1941—42	1940—41		1937—38	1934—37	
Goss, W. F. M.				1909—10			
Gottlieb, A.	1888—89					1886—89	
Grant, B. E.	1916—17	1914—15	1901—02 1913—14			1903—06	
Greeley, S. S.		1883—84				1875—80* 1880—83	
Green, O. B.						1888—91	
Grinter, L. E.						1950—	
Gunlock, Virgil E.						1955—	
Hagedorn, Harry P.						1959—	
Hall, Ferd						1897—00	
Hammond, Robert S.						1953—56	
Hand, Geo. W.					1923—28	1928—30	
Hansen, Paul						1943—44	
Harger, Kendrick						1940—43	
Harper, R. B.			1945			1942—45	
Harrington, J. Earl							1949—59
Harris, Arthur R.						1956—59	

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Hatch, J. N.		1918—19	1917—18				
Hatt, W. K.				1910—11			
Haupt, C. W.					1934—36		
Hayford, J. F.				1913—14			
Heald, H. T.	1945—46	1944—45	1943—44			1939—42	
Hecht, J. L.	1922—23	1921—22	1920—21	1919—20			
Hendrickson, Ernest R.					1959—60	1956—59	
Herr, Hiero	1894—95		1893—94				
Hess, F. A.						1952—55	
Hjortsberg, Max						1869—74*	
Horton, Horace E.	1895—96					1896—99	
Hotchkiss, C. W.		1904—05				1901—04	
Howson, E. T.	1924—25	1923—24		1922—23		1919—22	
Howson, A. W.						1950—53	
Howson, L. R.	1937—38	1936—37	1935—36	1933—35			
Hudson, C. H.		1886—87					
Hunt, Robert W.	1893—94					1894—97	
Huntington, W. C.						1936—39	
Imhoff, Eldon A.						1947—50	
Jackson, Dugald C.				1906—07			
Jackson, George L.	1956—57	1955—56	1954—55			1952—54	
Jackson, Wm. B.	1915—16						
Jacobson, A. F.						1952	
Johnson, Hjalmar W.		1958—59	1957—58		1956—57	1953—56	
Johnson, Thos. T.	1897—98	1896—97	1895—96				
Junkersfeld, Peter		1909—10	1908—09				
Kahler, W. V.	1947—48	1946—47	1945—46			1944—45	
Keith, Leigh S.		1934—35	1933—34	1932—33	1928—32		1935—47
Kinney, Wm. M.			1918—19				
Knowles, C. R.			1934—35				
Koflat, Alf						1953—56	
Kuche, Joseph						1954—57	
Kurtz, W. O.	1930—31		1929—30	1928—29			
Lane, F. H.	1941—42	1940—41		1939—40		1936—39	
Lane, Moses		1880—82					
Layfield, E. N.			1907—08				1915—17
LeClair, Titus G.	1946—47	1945—46			1942—45	1937—40	
Lee, E. H.	1914—15						
Lenth, Geo. C. D.						1916—19	
Libberton, J. H.						1920—21	
Liljencrantz, G. A. M.		1905—06				1895—98	
Litten, Nelson L.							1896—01
Lowell, J. W.						1921—22	
Loweth, C. F.	1908—09		1905—06				
McClure, R. J.						1880—87	
McClurg, V. O.	1948—49	1947—48	1946—47			1942—45	
McCullough, Ernest		1915—16	1914—15			1911—14	
McElroy, Samuel			1885—86 1889—90			1916	
McHarg, W. S.						1882—85	
MacDowell, C. H.	1921—22						
Macomb, J. deN.						1946—49	
MacRitchie, Chas.		1889—90					
Mapes, L. R.	1939—40	1938—39	1937—38	1936—37		1933—36	
Marston, W. R.	1958—59	1957—58	1956—57		1955—56	1951—54	
Mason, Roswell B.	1869—70						
Massey, Geo. B.						1939—42	
Maxson, Raymond D.		1959—60			1958—59		
Mead, Daniel W.		1894—95		1908—09			
Mee, Charles L.						1952—57	
Melcher, C. W.					1898—00		
Merrill, Mrs. Dot						1952—53	
Metz, Carl						1958—	
Miller, K. B.		1919					
Modjeski, Ralph	1903—04	1902—03			1900—02		

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Morehouse, L. P.		1895—96			1869—80		1869—88
Morison, Geo. S.						1893—96	
Morrow, F. E.	1926—27	1925—26	1924—25				
Morse, C. A.	1923—24		1922—23				
Murphy, Charles F.						1955—	
Nagler, K. B.						1935—38	
Nethercut, Edgar S.							1917—35
Newell, F. H.				1916—17			
Nichols, Geo. P.						1898—01	
Niesz, Homer E.	1925—26	1924—25			1921—23		
Niles, Thomas M.						1953—56	
Noble, Alfred	1898—99	1897—98	1896—97				
Northway, W. R.			1890—91				
Nourse, Edwin G.					1893—94		
Nutt, H. C.						1880—82	
Olson, Howard R.						1957—	
Osborn, C. M.					1936—37		
Paine, Charles	1870—73						
Parkhurst, H. W.	1904—05	1903—04			1889—90		
Penn, Henry						1946—49	
Pence, W. D.				1904—05			
Pope, Willard S.	1882—83						
Powell, Ambrose V.	1900—01		1898—99		1887—88		
Price, Samuel R.						1959—	
Putnam, Rufus W.	1927—28	1926—27	1925—26	1924—25			
Randall, Frank A.						1935—38	
Randolph, Isham	1892—93	1884—85	1883—84				
Reichmann, Albert	1913—14				1906—13		
Rattaliata, John T.	1959—60		1958—59		1957—58	1952—57	
Reynolds, James J.		1898—99	1897—98			1901	
Rich, E. P.						1926—29	
						1934—35	
Ritter, L. E.						1908—11	
Roney, Chas. J.							1895—96
Roper, D. W.		1916—18	1916				
Rust, H. A.		1893—94				1887—90	
Schmidt, Ernie A.						1956—59	
Scott, Frank M.						1959—	
Seaton, George L.						1952—	
Sedwick, H. P.	1950—51	1949—50	1948—49			1945—47	
Seely, G. T.			1912—13				
Seymour, W. O.			1891—92				
Shailer, Robert A.		1890—91					
Shankland, F. C.				1912—13			
Shapiro, B. B.				1921—22			
Skog, Ludwig						1949—52	
Smith, Frank V.						1956—59	
Smith, Homer K.						1945—48	
Smith, Ormas G.	1957—58	1956—57	1955—56			1954—55	
Smith, W. Sooy	1877—80					1883—86	
Snow, T. W.						1904—07	
Stankiewicz, Eugene						1959—	
Steger, Donald V.							1947—49
Strasser, R. J.						1937—40	
Strobel, C. L.						1892—95	
Sullivan, John F., Jr.	1954—55	1953—54	1952—53		1950—52		
Sykes, Wilfred						1948—51	
Talbot, A. N.				1907—08			
Townsend, H. C.						1943—46	
Turneaure, F. E.			1903—04				
Turner, Ralph E.						1945—48	
Van Gorp, Dick						1954—57	
VanPelt, J. R.	1936—37	1935—36				1934—35	
Vore, M. P., Jr.					1948		
Wallace, John F.	1896—97	1891—92					
Warder, J. H.							1901—15
Webb, C. Earl	1943—44	1942—43	1941—42			1940—41	
Westburg, Paul A.	1938—39	1937—38	1936—37	1935—36	1932—34		

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Weston, John W.		1888—89			1890—93		1889—94
White, Linn				1920—21			
Whiting, F. T.						1948—51	
Whitney, Nelson O.		1899—00					
Whitridge, John C.					1902		
Whittemore, D. J.			1886—87				
Whittier, C. C.	1934—35	1933—34	1932—33	1930—32		1927—30	
Williams Benezette	1885—86					1878—80*	
Wisner, G. M.						1905—08	
Witt, J. C.			1949—50				
Woodworth, P. B.				1915—16			
Wright, Augustine W.	1886—87		1884—85			1885—86	
Young, Hugh E.						1941—44	
Ziesing, August						1899—02	

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Charles Paine	6-13-70 to 6- 9-73
E. S. Chesbrough	6- 9-73 to 6-19-77
Wm. Sooy Smith	6-19-77 to 8- 3-80
E. S. Chesbrough	8- 3-80 to 1- 2-82
Willard S. Pope	1- 2-82 to 1- 8-83
DeWitt C. Cregier	1- 9-83 to 1- 6-85
Benezette Williams	1- 6-85 to 1- 5-86
A. W. Wright	1- 5-86 to 1- 4-87
S. G. Artingstall	1- 4-87 to 1- 3-88
A. Gottlieb	1- 3-88 to 1- 8-89
E. L. Corthell	1- 8-89 to 1- 8-90
L. E. Cooley	1- 8-90 to 2- 3-92
Isham Randolph	2- 8-92 to 1- 4-93
Robert W. Hunt	1- 4-93 to 1- 3-94
Hiero B. Herr	1- 3-94 to 1- 2-95
Horace E. Horton	1- 2-95 to 1- 2-96
John F. Wallace	1- 2-96 to 1- 5-97
Thos. T. Johnston	1- 5-97 to 1- 4-98
Alfred Noble	1- 4-98 to 1- 3-99
Onward Bates	1- 3-99 to 1- 2-00
Ambrose V. Powell	1- 2-00 to 1- 8-01
Octave Chanute	1- 8-01 to 1- 7-02
William H. Finley	1- 7-02 to 1- 6-03
Ralph Modjeski	1- 6-03 to 1- 5-04
H. W. Parkhurst	1- 5-04 to 1- 3-05
Edward C. Carter	1- 3-05 to 1- 2-06
Bion J. Arnold	1- 2-06 to 1- 8-07
W. L. Abbott	1- 7-08 to 1- 5-09
C. F. Loweth	1- 7-08 to 1- 5-09
Andrews Allen	1- 5-09 to 1-12-10
J. W. Alvord	1-12-10 to 1-11-11
O. P. Chamberlain	1-11-11 to 1-10-12
W. C. Armstrong	1-10-12 to 1- 8-13
Albert Reichmann	1- 8-13 to 1- 7-14
E. H. Lee	1- 7-14 to 1-13-15
Wm. B. Jackson	1-13-15 to 1-12-16
B. E. Grant	1-12-16 to 1-10-17
H. J. Burt	1-10-17 to 1- 9-18
Chas. B. Burdick	1- 9-18 to 1-22-19
A. S. Baldwin	1-22-19 to 1-28-20
F. K. Copeland	1-28-20 to 6- 1-21
C. H. MacDowell	6- 1-21 to 6- 7-22
J. L. Hecht	6- 7-22 to 6- 6-23
C. A. Morse	6- 6-23 to 6- 4-24
E. T. Howson	6- 4-24 to 6- 3-25
Homer E. Niess	6- 3-25 to 6- 2-26
F. E. Morrow	6- 2-26 to 6- 1-27
Rufus W. Putnam	6- 1-27 to 6- 6-28
John A. Garcia	6- 6-28 to 6- 5-29
William S. Monroe	6- 5-29 to 6- 1-30
W. O. Kurtz	6- 1-31 to 6- 1-31
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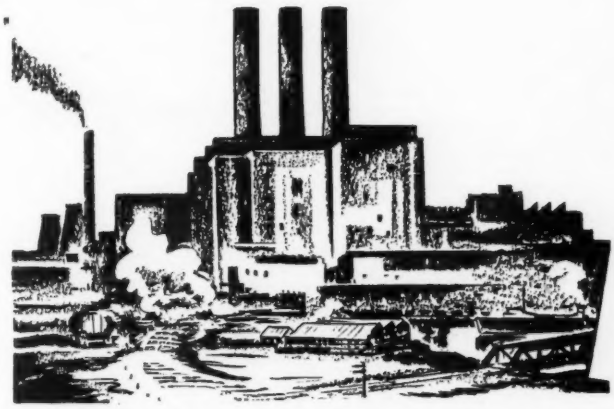

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Frank F. Fowle	8- 1-35 to 8- 1-36
J. R. Van Pelt	8- 1-36 to 8- 1-37
L. R. Howson	8- 1-37 to 8- 1-38
Paul A. Westburg	8- 1-38 to 8- 1-39
L. R. Mapes	8- 1-39 to 6- 1-40
E. Gordon Fox	6- 1-40 to 6- 1-41
F. H. Lane	6- 1-41 to 6- 1-42
Fred G. Gordon	6- 1-42 to 6- 1-43
C. Earl Webb	6- 1-43 to 6- 1-44
Philip R. Elfstrom	6- 1-44 to 6- 1-45
Henry T. Heald	6- 1-45 to 6- 1-46
Titus G. Le Clair	6- 1-46 to 6- 1-47
W. V. Kahler	6- 1-47 to 6- 1-48
Verne O. McClurg	6- 1-48 to 6- 1-49
Gustav Egloff	6- 1-49 to 6- 1-50
H. P. Sedwick	6- 1-50 to 6- 1-51
Donald N. Becker	6- 1-51 to 6- 1-52
Ovid W. Eshbach	6- 1-52 to 6- 1-53
Charles E. DeLeuw	6- 1-53 to 6- 1-54
John F. Sullivan, Jr.	6- 1-54 to 6- 1-55
Albert P. Boysen	6- 1-55 to 6- 1-56
George L. Jackson	6- 1-56 to 6- 1-57
Ormas G. Smith	6- 1-57 to 6- 1-58
William R. Marston	6- 1-58 to 6- 1-59

Names of deceased Past Presidents are in light face type.

DECEASED HONORARY MEMBERS

Name	Date Elected
L. P. Moorhouse	12- 7-87
Octave Chanute	1- 5-09
Grenville M. Dodge	5-20-09
D. J. Whittemore	12- 6-10
Geo. W. Goethals	1-22-15
John E. Blunt	1-10-17
Alonzo W. Paige	1-10-17
D'Espoto, Joshua	11-26-19
Onward Bates	3-22-22
Robert W. Hunt	3-22-22
Samuel Insull	6- 2-26
Ralph Modjeski	6- 2-26
Bion J. Anold	6- 1-27
Arthur N. Talbot	6- 1-27
E. C. Carter	6- 5-29
William Lamont Abbott	4-28-31
John W. Alvord	4-28-31
C. F. Loweth	4-28-31
John F. Stevens	10-29-35
Benjamin F. Affleck	9-26-38
George Terry Horton	1- 7-44
Daniel Webster Mead	1- 7-44
William S. Monroe	4- 4-46
Burdick, Chas. B.	4- 4-46
Condon, T. L.	3-26-45
Hecht, J. L.	5- 3-47
Gear, Harry B.	5- 5-47

DECEASED MEMBERS*

DuVernet, John N. ('50,M), Died 11-12-57
Kiester, Wayne A. ('49,A), 9-4-57
Jessup, R. D. ('28,M), 12-10-57
Turck, J. A. V. ('17,LM), 1957
Wendell, Everett J. ('46,M), 1-25-58
Taussig, William S. ('05,M), 2-15-58
Logan, Howard ('09,LM), 3-18-58
Hempelmann, Walter L. ('19,LM), 4-30-58
Marx, Lester M. ('24,M), 5-16-58
Lofts, David ('20,LM), 5-22-58
Harman, Jacob A. ('90,LM), 7-10-58
Marsh, Don E. ('13,LM), 6-25-58
Floor, Erik ('26,LM), 7-58
Dike, Chester T. ('01,LM), 8-2-58
Saint, George A. ('19,LM), 9-2-58
Deckert, J. E. ('20,LM), 10-27-58
Perrine, Dwight E. ('52,M), 9-21-58
Koeherle, H. J. ('36,M), 10-30-58
Artman, Mrs. Margaret E. ('48,M), 11-25-58
Erdal, Ingolf ('20,LM), 11-58
Biedinger, H. E. ('55,M), 12-12-58
Cartland, Silas ('48,M), 12-5-58
Leisner, Paul W. ('11,LM), 12-24-58
Heald, James H. ('09,M), 12-27-58
Wilson, W. M. ('07,M), 1958
Bakhshi, S. R. ('20,LM), 2-14-59
Knowlson, James S. ('48,M), 3-16-59
Gear, Harry B. ('07,LM,Hon.M), 3-27-59
Whitcher, William C. ('49,M), 4-27-59
Orthwein, Robert G. ('49,M), 5-13-59
Seymour, Charles W. ('36,M), 5-18-59
Narowetz, L. L. ('20,M), 5-27-59

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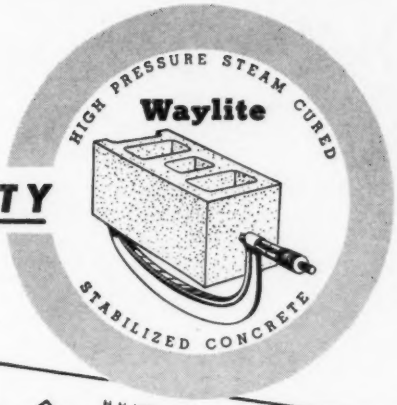
demand MORE WALL STABILITY



IB *Waylite*

AUTOCLAVED BLOCK

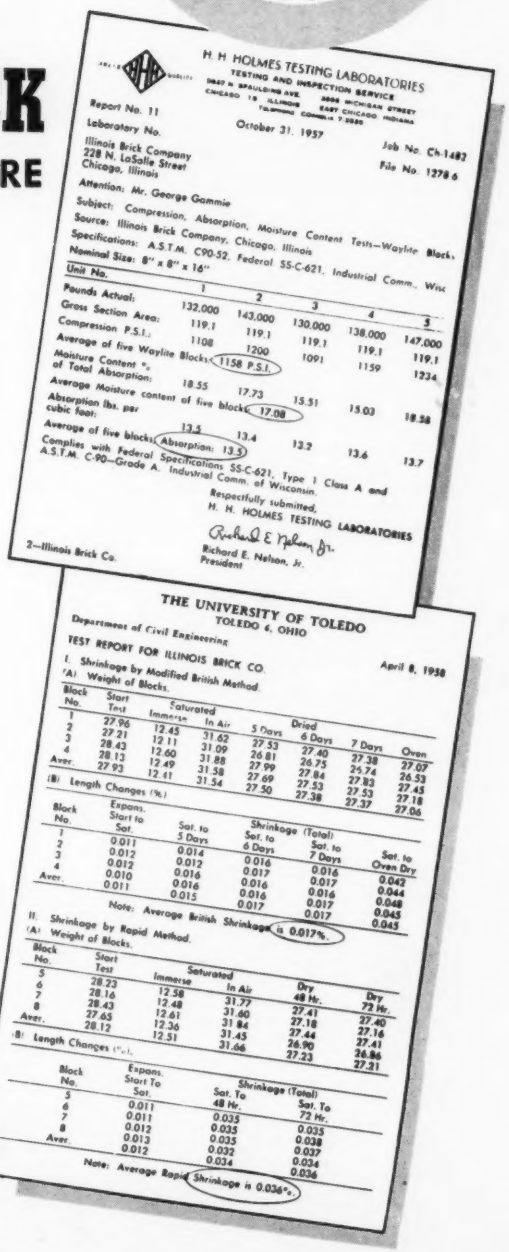
PROVIDE AS MUCH AS 50% MORE

Greater wall stability, better color, lighter weight . . . clean, sharp edges—**every superior performance demand** you've ever had for "the most exacting wall work" is now fulfilled with IB WAYLITE PRESHRUNK BLOCK produced in HIGH PRESSURE STEAM CURING AUTOCLAVES.

Autoclaving is proven unequivocally by time and tests. Over 10 million AUTOCLAVED WAYLITE BLOCK have been placed in every kind of wall without one cracked wall attributed to shrinkage. **You too can count on the exclusive advantages** of autoclaving:

- 17% moisture content with linear shrinkage of only 0.017% (Modified British Method) or 0.036% (Rapid Method)—so low you actually increase wall stability as much as 50%.
- Compressive strength well over the Grade A, ASTM C-90 specifications of 1000 psi.
- Lighter in weight by 1 to 2 pounds because IB WAYLITE is dry.
- Lower wall costs due to fewer joints and less reinforcement.

Visit either the Broadview or Blue Island Plant and see seven **high pressure steam curing AUTOCLAVES** in operation. Or . . . a card or call will bring test data and a free copy of "This IS Autoclaving."



H. H. HOLMES TESTING LABORATORIES
TESTING AND INSPECTION SERVICE
1840 N. SPAULDING AVE. CHICAGO 19, ILLINOIS — 4606 MICHIGAN STREET EAST CHICAGO, INDIANA
TELEPHONE COMMON 7-2880

Report No. 11
Laboratory No.
October 31, 1957
Job No. Ch-1487
File No. 1278.6

Illinois Brick Company
228 N. LaSalle Street
Chicago, Illinois

Attention: Mr. George Gammie

Subject: Compression, Absorption, Moisture Content Tests—Waylite Blocks

Source: Illinois Brick Company, Chicago, Illinois

Specifications: A.S.T.M. C90-52, Federal SS-C-621, Industrial Comm., Wisc

Nominal Size: 8" x 8" x 16"

Unit No.	1	2	3	4	5
Pounds Actual:	132.000	143.000	130.000	138.000	147.000
Gross Section Area:	119.1	119.1	119.1	119.1	119.1
Compression P.S.I.:	1108	1200	1091	1159	1234
Average of five Waylite Blocks: 1158 P.S.I.					
Moisture Content %:	18.55	17.73	15.51	15.03	18.58
Average Moisture content of five blocks: 17.08					
of Total Absorption:	13.5	13.4	13.2	13.6	13.7
Absorption lbs. per cubic foot:					
Average of five blocks: Absorption: 13.3					

Complies with Federal Specifications SS-C-621, Type I Class A and A.S.T.M. C-90—Grade A. Industrial Comm. of Wisconsin.

Respectfully submitted,
H. H. HOLMES TESTING LABORATORIES
Richard E. Nelson Jr.
Richard E. Nelson, Jr.
President

2—Illinois Brick Co.

THE UNIVERSITY OF TOLEDO
TOLEDO 6, OHIO

Department of Civil Engineering

TEST REPORT FOR ILLINOIS BRICK CO.

April 8, 1958

I. Shrinkage by Modified British Method.

(A) Weight of Blocks.

Block No.	Start Test	Saturated Immerse	Saturated In Air	5 Days	Dried 6 Days	7 Days	Oven
1	27.96	12.45	31.62	27.53	27.40	27.38	27.07
2	27.21	12.11	31.09	26.81	26.75	25.74	26.53
3	28.43	12.60	31.88	27.99	27.84	27.83	27.45
4	28.13	12.49	31.58	27.69	27.53	27.53	27.18
Aver.	27.93	12.41	31.54	27.50	27.38	27.37	27.06

(B) Length Changes (%)

Block No.	Expans. Start to Sat.	Shrinkage (Total) Sat. to 5 Days	Sat. to 6 Days	Sat. to 7 Days	Sat. to Oven Dry
1	0.011	0.014	0.016	0.016	0.042
2	0.012	0.012	0.017	0.016	0.044
3	0.012	0.016	0.016	0.017	0.048
4	0.010	0.016	0.016	0.017	0.045
Aver.	0.011	0.015	0.017	0.017	0.045

Note: Average British Shrinkage is 0.017%.

II. Shrinkage by Rapid Method.

(A) Weight of Blocks.

Block No.	Start Test	Saturated Immerse	Saturated In Air	Dry 48 Hr.	Dry 72 Hr.
5	28.23	12.38	31.77	27.41	27.40
6	28.16	12.48	31.60	27.18	27.16
7	28.43	12.61	31.84	27.44	27.41
8	27.65	12.36	31.45	26.90	26.86
Aver.	28.12	12.51	31.66	27.23	27.21

(B) Length Changes (%)

Block No.	Expans. Start To Sat.	Shrinkage (Total) Sat. To 48 Hr.	Sat. To 72 Hr.
5	0.011	0.035	0.035
6	0.011	0.035	0.038
7	0.012	0.035	0.037
8	0.012	0.032	0.034
Aver.	0.013	0.034	0.036

Note: Average Rapid Shrinkage is 0.036%.

Illinois Brick COMPANY
228 NORTH LASALLE STREET • CHICAGO

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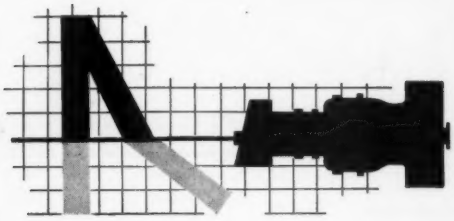

Gas Turbines Provide Profitable Peaking

RAPID PEAK LOAD GROWTH in recent years has focused new interest on costs incurred for providing added peaking capacity. After extensive study, General Electric has concluded that low-investment gas turbines provide the greatest promise of answering electric utility peaking requirements of the future.

Why G-E gas turbines? They offer high capacity from one self-contained *unit* . . . . rated 20,500/28,000* kilowatts! Initial investment and space requirements are low because of basic gas turbine simplicity. Minimum cooling water requirements and effective silencing permit location for maximum transmission savings. Automatic or remote control reduces operating expenses and contributes to low annual costs that are economically attractive.

FOR MORE INFORMATION on proven-in-service gas turbine peaking units, contact General Electric Co., 840 S. Canal Street, Chicago 80, Illinois. 673-9

*Low ambient temperature capability

Progress Is Our Most Important Product

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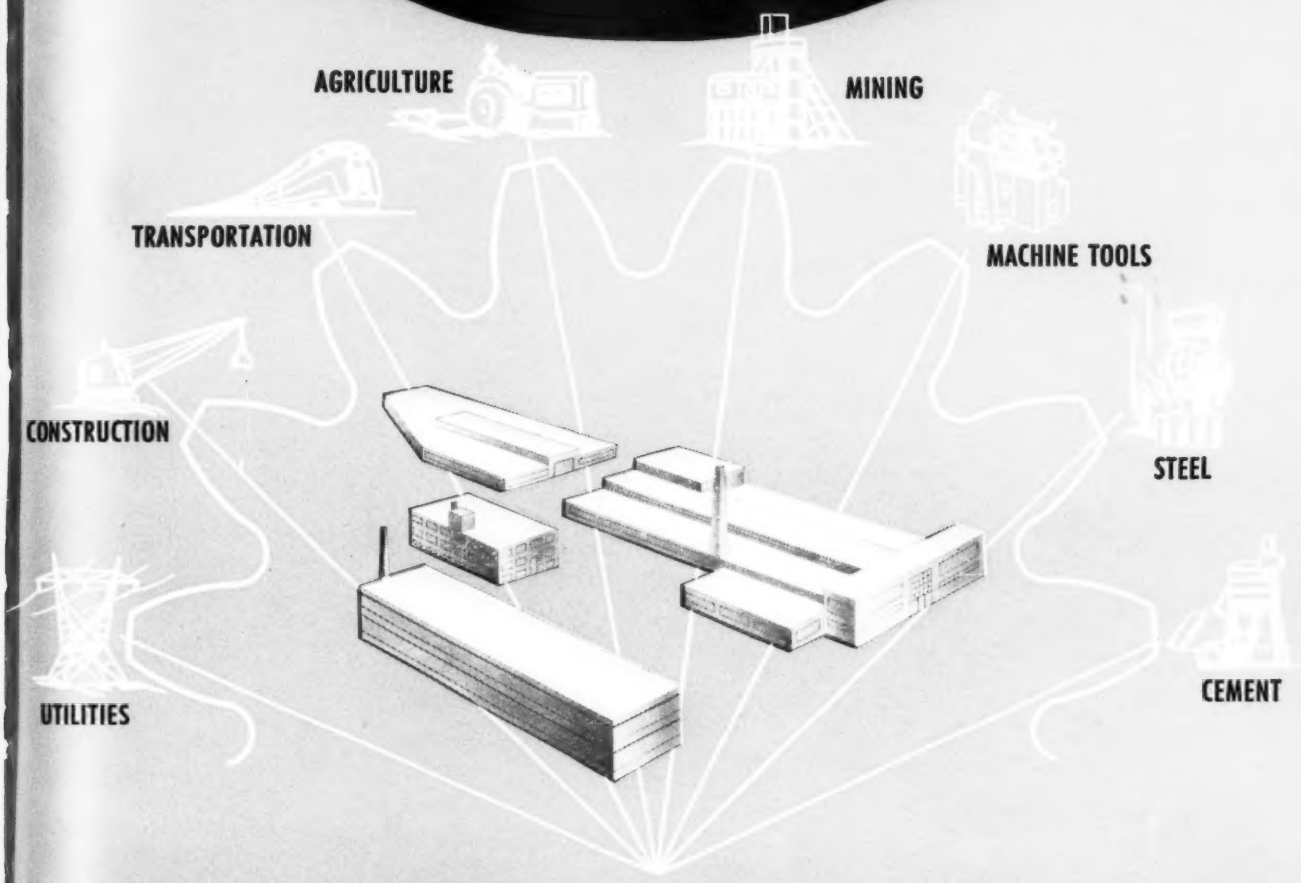

Look for this mark ILL® *the symbol on finer gears*

ILLINOIS GEARS Reg U S Pat Off

Gears for Every Purpose ... one gear or 10,000 or more

ILLINOIS GEAR & MACHINE COMPANY

2108 NORTH NATCHEZ AVENUE • CHICAGO 35, ILLINOIS

Dresden Nuclear Power Station 6 Months Ahead of Schedule!

Shown above are the Turbine Building and the 190-foot steel sphere which houses the 300-ton reactor. The atomic Fuel Handling Building can be seen at right.

Construction nears completion!

Lights, TV, refrigerators and other electrical appliances in Chicago and Northern Illinois area will draw upon the atom for electricity sooner than expected according to Commonwealth Edison Company.

Work on the Dresden Station—which will have the largest nuclear power reactor in the U. S.—has passed the halfway mark. The plant is expected to be in regular operation six months ahead of the originally scheduled completion date of December 7, 1960.

The Dresden plant will provide 180,000 kilowatts of electricity—enough to meet the needs of a city of 250,000.

It is expected that this will be the first full-scale, privately financed atomic plant to go into operation in the U. S. There is no government subsidy.

General Electric Company is building the plant for a contract price of $45,000,000, of which Commonwealth Edison is paying $30,000,000. The remaining $15,000,000 is being paid as a research and development expense by the companies associated in Nuclear Power Group. These are, in addition to Commonwealth Edison, American Electric Power Company, Bechtel Corporation, Central Illinois Light Company, Illinois Power Company, Kansas City Power & Light Company, Pacific Gas and Electric Company, and Union Electric Company.

The 300-ton reactor pressure vessel was delivered March 11th of this year. It was so massive that it had to be shipped by water from Camden, New Jersey, where it was fabricated. It was routed over the Atlantic and Gulf Intracoastal waterways to New Orleans, and then up the Mississippi and Illinois waterways to the plant.

Major construction at Dresden began in June, 1957. Shown here is excavation for giant 190-foot steel sphere.

By September, 1957, sections of the steel sphere were being welded into position. In the background is the Turbine Building.

The massive nuclear reactor (foreground) arrived in March, 1959. It is now installed in the hugh sphere, which was tested with compressed air to a pressure of 37 pounds per square inch.

Commonwealth Edison
AND
Public Service Company

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